JVC

SERVICE MANUAL

STEREO RECEIVER

MODEL R-K200/R-K200L

R-K200L

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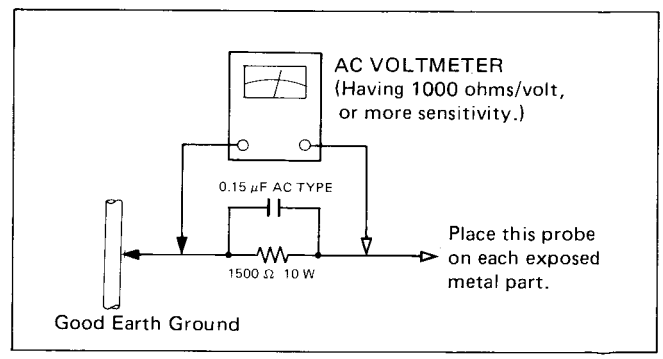
This manual combines two single volumes; Service manual and Parts list.

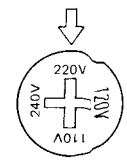
No. 2730
Feb. 1984

Safety Precautions

1. The design of this product contains special hardware, many circuits and components specially for safety purposes.
   For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits. Service should be performed by qualified personnel only.
2. Alterations of the design or circuitry of the product should not be made. Any design alterations or additions will void the manufacturer's warranty and will further relieve the manufacturer of responsibility for personal injury or property damage resulting therefrom.
3. Many electrical and mechanical parts in the product have special safety-related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in the parts list of Service manual. Electrical components having such features are identified by shading on the schematics and by (⚠) on the parts list in Service manual. The use of a substitute replacement which does not have the same safety characteristics as the recommended replacement part shown in the parts list in Service manual may create shock, fire, or other hazards.
4. The leads in the products are routed and dressed with ties, clamps, tubings, barriers and/or the like to be separated from live parts, high temperature parts, moving parts and/or sharp edges for the prevention of electric shock and fire hazard.
   When service is required, the original lead routing and dress should be observed, and they should be confirmed to be returned to normal, after re-assembling.
5. Leakage current check
   (Safety for electrical shock hazard)
   After re-assembling the product, always perform an isolation check on the exposed metal parts of the Products (antenna terminals, knobs, metal cabinet, screw heads, headphone jack, control shafts, etc.) to be sure the product is safe to operate without danger of electrical shock.
   Do not use a line isolation transformer during this check.
   - Plug the AC line cord directly into the AC outlet. Using a "Leakage Current Tester", measure the leakage current from each exposed metal part of the cabinet, particularly any exposed metal part having a return path to the chassis, to a known good earth ground. Any leakage current must not exceed 0.5 mA AC (r.m.s.).
   - Alternate check method.
     Plug the AC line cord directly into the AC outlet. Use an AC voltmeter having 1,000 ohms per volt or more sensitivity in the following manner. Connect a 1500 Ω 10 W resistor paralleled by a 0.15 μF AC-type capacitor between an exposed metal part and a known good earth ground.
     Measure the AC voltage across the resistor with the AC voltmeter.
     Move the resistor connection to each exposed metal part, particularly any exposed metal part having a return path to the chassis, and measure the AC voltage across the resistor. Now, reverse the plug in the AC outlet and repeat each measurement. Any voltage measured must not exceed 0.75 V AC (r.m.s.). This corresponds to 0.5 mA AC (r.m.s.).


AC VOLTMETER
(Having 1000 ohms/volt, or more sensitivity.)
0.15 μF AC TYPE
1500 Ω 10 W
Place this probe on each exposed metal part.
Good Earth Ground

CHECKING YOUR LINE VOLTAGE (Except for U.S.A., Canada, Australia, U.K. and Continental Europe.)
Before inserting the power plug, please check this setting to see that it corresponds with the line voltage in your area. If it doesn't, be sure to adjust the voltage selector switch to the proper setting before operating this equipment. The voltage selector switch is located on the rear panel.



CAUTION Before selecting the "Voltage selector switch" to proper voltage disconnect the power plug.

1. Specifications

AMPLIFIER SECTION

'78 IHF

RMS Power : **40 watts per channel, min. RMS, both channels driven, into 8 ohms from 40 Hz 40 Hz to 20 kHz, with no more than 0.5 % total harmonic distortion.**

40 watts per channel, min. RMS, both channels driven, into 8 ohms at 1 kHz with no more than 0.1 % total harmonic distortion.

45 watts per channel, min. RMS, both channels driven into 8 ohms at 1 kHz with no more than 0.7 % total harmonic distortion.

Total Harmonic Distortion	: 0.1 % at 40 watts (1 kHz, 8 ohms)	
Input Sensitivity/Impedance		
PHONO	:	2.5 mV/47 kohms
TAPE PLAY/ DAD/AUX	:	170 mV/40 kohms
Recording Output Level	:	170 mV
Frequency Response		
PHONE (RIAA Equalization)	:	20 Hz – 20 kHz, +1 dB, -1 dB
TAPE PLAY/ DAD/AUX	:	15 Hz – 40 kHz, +1 dB, -1 dB
S.E.A. Graphic Equalizer		
Center frequencies	:	63 Hz, 250 Hz, 1 kHz, 4 kHz, 16 kHz
Control range	:	± 12 dB
Loudness Control (Volume control at -30 dB position)	:	6 dB at 100 Hz 4 dB at 10 kHz
Signal to Noise Ratio		
PHONO	: 70 dB ('66 IHF)	59 dB (DIN)
	78 dB ('78 IHF, Rec out)	
TAPE PLAY/ VIDEO/AUX	: 91 dB ('66 IHF)	64 dB (DIN)
	74 dB ('78 IHF)	

FM TUNER SECTION

	'78 IHF	DIN (for Europe)
Tuning Range	: 87.5 MHz–108.0 MHz	87.5 MHz–108.0 MHz
Usable Sensitivity	: Mono	(S/N 26 dB)
	10.8 dBf	
	0.95 μV/75 ohms	1 μV/75 ohms
	1.9 μV/300 ohms	2 μV/300 ohms
50 dB Quieting Sensitivity	: Mono 14.8 dBf (3.0 μV/300 ohms)	–
	Stereo 38.3 dBf (45 μV/300 ohms)	
S/N 46 dB Stereo Sensitivity	: –	Stereo 23 μV/75 ohms
	–	Stereo 46 μV/300 ohms
Signal to Noise Ratio (at 98 MHz, 80 dBf)	: Mono 80 dB	Mono 72 dB
	Stereo 73 dB (A-net.)	Stereo 64 dB (weighted)
Total Harmonic Distortion 1 kHz	: Mono 0.08 %	Mono 0.1 %
	Stereo 0.15 %	Stereo 0.3 %
Frequency Response	: 30 Hz – 15 kHz, +0.5 dB, -3 dB	
Capture Ratio	: 1.5 dB	1.0 dB
Alternate Channel Selectivity	60 dB, ±400 kHz	55 dB, ±300 kHz
Image Response Ratio	: 55 dB at 98 MHz	
IF Response Ratio	: 85 dB at 98 MHz	
Stereo Separation	: 40 dB at 1 kHz	

AM TUNER SECTION

	'78 IHF	DIN (for Europe)
MW		
Tuning Range		
Channel space 9 kHz	: 522 kHz–1611 kHz	522 kHz–1611 kHz
Channel space 10 kHz	: 520 kHz–1710 kHz	
Sensitivity	: 300μV/m at 1000 kHz	300μV/m at 999 kHz
	30 μV at 1000 kHz	30 μV at 999 kHz
Signal to Noise Ratio (100mV/m)	: 50 dB at 1000 kHz	50 dB at 999 kHz
		45 dB for R-K22L
Selectivity	: 38 dB, ±10 kHz at 1000 kHz	35 dB, ±9 kHz at 999 kHz

LW (R-K200L only)

Tuning Range	: 153 Hz – 360 kHz
Sensitivity	: 600 μV/m at 245 kHz
	100 μV at 245 kHz
Signal to Noise Ratio (100 mV/m)	: 45 dB at 245 kHz
Selectivity	: 40 dB ±9 kHz at 245 kHz

Design and specifications subject to change without notice.

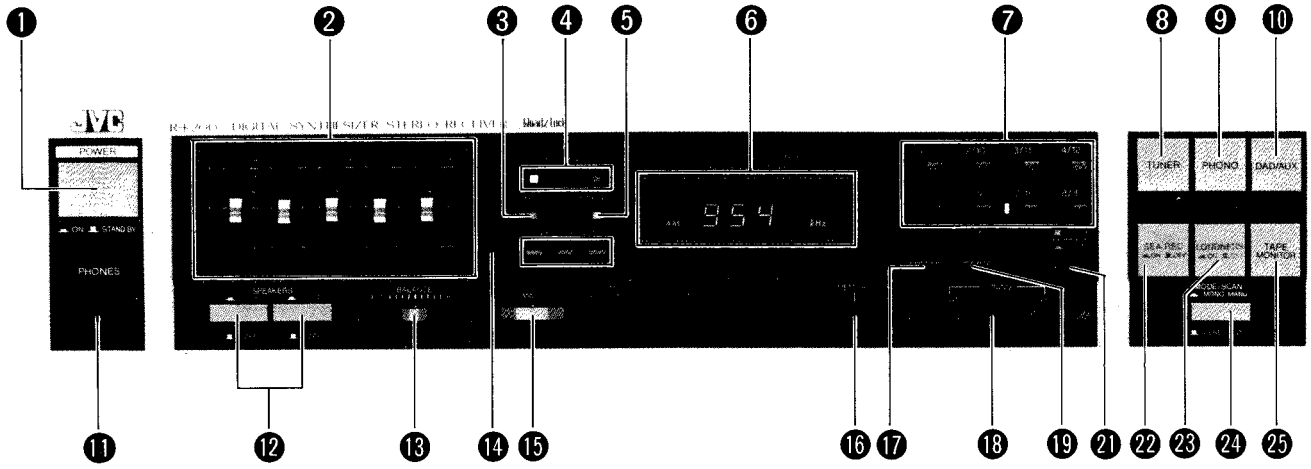
Power Specifications

Areas	Line Voltage & Frequency	Power Consumption
U.S.A., Canada	AC 120 V, 60 Hz	160 W, 200 VA
Europe	AC 220 V~, 50 Hz	120 watts
U.K., Australia	AC 240 V~, 50 Hz	120 watts
Other Areas	AC 110/120/220/240 V~, Selectable, 50/60 Hz	120 watts

Dimensions and Weight

Dimensions			Weight
Height	Width	Depth	Net
92 mm (3-5/8")	435 mm (17-1/8")	265 mm (10-7/16")	4.6 kg (10.1 lbs)

2. Names of Controls and Their Functions



❶ POWER switch

ON: (▬) Press to set to this position to turn the power on.

STANDBY: (▂) When the power cord is plugged into an AC outlet, the memory circuit operates and the preset stations are not subject to cancellation or accidental alteration. The preset data is maintained even in the case of a power failure or when the power cord is disconnected, if the period power is not applied does not exceed a couple of days.

Note:

- **Even when the POWER switch is set to off, this receiver consumes a small amount of electricity (5 watts). To shut the power completely off, disconnect the power cord.**

❷ S.E.A. graphic equalizer system

These five controls allow you to boost or lower response separately in five portions of the frequency spectrum by 12 dB. For operation of these controls, which give far more flexible control over tone than the conventional bass/treble controls, see page 19.

❸ FM STEREO indicator

This LED lights when tuned to an FM stereo broadcast.

❹ TUNER PRESET indicator

These LEDs light corresponding to the position of the 1-8/9-16 switch.

❺ MEMORY indicator

When the MEMORY switch is pressed, this MEMORY indicator lights to show that the unit is ready to store a preset frequency in memory. This indicator will go out automatically in about 10 sec. or when the station select button is pressed.

❻ Frequency indicator

The tuned-in frequency is displayed digitally. Four digits (kHz) are displayed in AM reception and five digits (MHz) (for Europe, U.K., Australia and other countries) or four digits (MHz) (for U.S.A. and Canada) are displayed in FM reception.

❼ Station select buttons/station indicators

These buttons are used to select one of the preset stations or to store the station frequency in memory. When one of these buttons is pressed, the LED on the left of the button pressed lights to show which channel is being received.

If one of these buttons is pressed when the MEMORY switch is pressed in, the frequency being received will be stored in memory.

Up to 16 stations can be preset at random for FM and AM (MW/LW) broadcasts in the channels of the station select buttons by switching the 1-8/9-16 switch.

If you change the mode from radio reception to any other mode including power-off and back to radio reception, the station last selected with the station select buttons remains tuned in.

❽ TUNER button

Press to listen to broadcasts.

❾ PHONO button

Press to hear or record sound from the tuntable connected to the PHONO terminals on the rear panel.

❿ DAD/AUX button

Press to hear or record sound from the source connected to the DAD/AUX terminals on the rear panel.

⓫ Headphone jack (PHONES)

Plug stereo headphones into this jack for private listening and to monitor recording.

⓬ SPEAKERS-1/SPEAKERS-2 switches

Press to switch the speakers connected to the SPEAKERS system and/or 2 terminals on and off.

Note:

- **When speakers are connected to only one system of the SPEAKERS system terminals, press only the SPEAKERS switch of the system connected; if both switches are pressed, sound will not be heard from either speaker system. When two pairs of speakers are connected and either or both SPEAKERS switches is/are pressed, sound will be heard from either or both speaker system(s).**

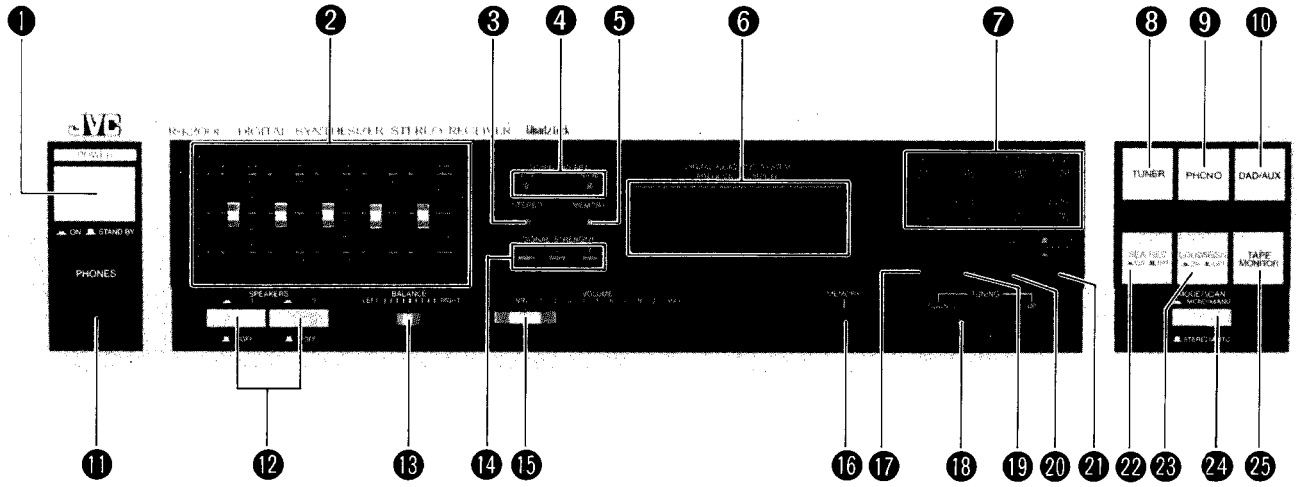
⓭ BALANCE control

Use to adjust the balance between the left and right speakers.

⓮ SIGNAL STRENGTH indicator

This is used in tuning to both FM and AM (MW/LW) broadcasts. The greater the number of LEDs that light, the stronger the signal being received.

⓯ VOLUME control



⑯ MEMORY switch

Press this switch and the memory indicator will light to show that the memory is ready to receive a frequency. (This switch is non-locking type.)

Pressing the station select button while the MEMORY indicator is lit (for about 10 sec.) stores the frequency being received in memory.

When the MEMORY indicator is not lit, the memory function does not operate.

⑰ TUNING UP/DOWN button

Auto tuning

UP-scanning button:

When this side is pressed and released, the frequency changes in the direction of increading frequencies. Scanning (Auto Tuning) stops automatically when the next FM (or AM (MW/LW)) broadcast is tuned to. This tuned-in frequency is displayed digitally by the frequency indicator.

When you keep this button depressed, scanning does not stop even if broadcasts are detected.

DOWN-scanning button:

Press to tune in the direction of decreasing frequencies. Functions are identical with those of the UP-scanning button.

Note:

- **Scanning starts when the UP or DOWN button is pressed and is stopped by pressing the MODE/SCAN switch or when a broadcast is received.**

Manual tuning

Manual tuning is possible by pressing the MODE/SCAN switch. When the UP/DOWN-scanning button is pressed, the frequency changes in predetermined steps (see table below). Tapping this button changes the tuner step by step; pressing continuously (more than 0.5 sec.) changes tuning by high speed scanning which stops when the button is released.

Channel spacing

AM channel spacing switch (R-K200 only) is provided on the rear panel for selecting 9 kHz or 10 kHz steps according to your area.

Band / Area	FM	AM (MW)	AM (LW)
U.S.A., Canada	100 kHz	10 kHz	–
Continental Europe, U.K., Australia	50 kHz	9 kHz	1 kHz
Other Areas	*50 kHz	*9 kHz	–
	100 kHz	10 kHz	

Note: *Preset at the factory.

⑱ FM switch

Press to switch on the FM tuner section.

⑲ AM switch (for R-K200): MW switch (for R-K200L)

Press to switch on the AM (MW) tuner seciton.

⑳ LW switch (R-K200L only)

Press to switch on the LW tuner seciton.

㉑ 1-8/9-16 switch

Press to set to channels 1 – 8 (▬) or channels 9 – 16 (▁). The 1 – 8 or 9 – 16 LED in the TUNER PRESET indicator will light.

㉒ SEA REC button

Press to record tapes with the added effect of the S.E.A. graphic equalizer.

㉓ LOUDNESS button

Press to compensate for the ear's different sensitivity to sound at low folumes.

㉔ MODE/SCAN switch

This switch is used to select both FM STEREO/MONO mode and AUTO/MANUAL scanning mode. These functions are related to each other. When stereo reception is possible, set this switch to STEREO/AUTO (▬) for auto tuning.

When signals are too weak to be received by auto tuning, set to MONO/MANUAL (▁) for manual tuning; the left and right channel FM signals are mixed and heard from both speakers.

㉕ TAPE MONITOR button

Press to listen to the tape deck connected to the TAPE terminals. Release the button to hear the source selected with the source select buttons.

3. Removal Procedures

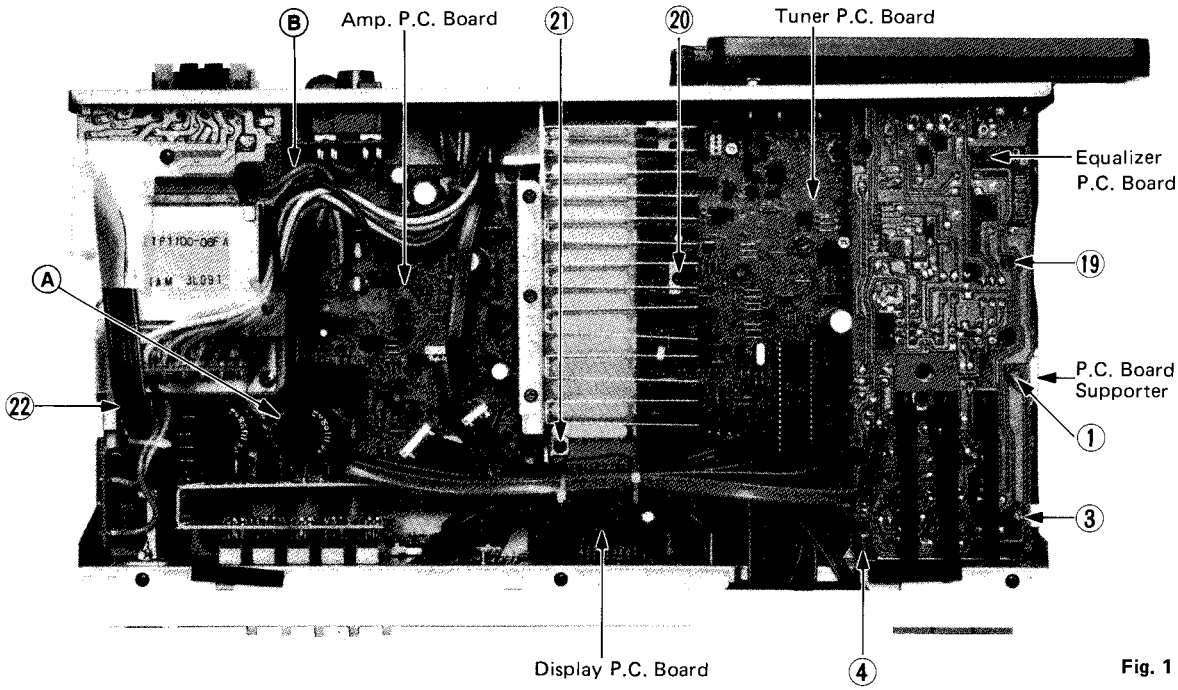


Fig. 1

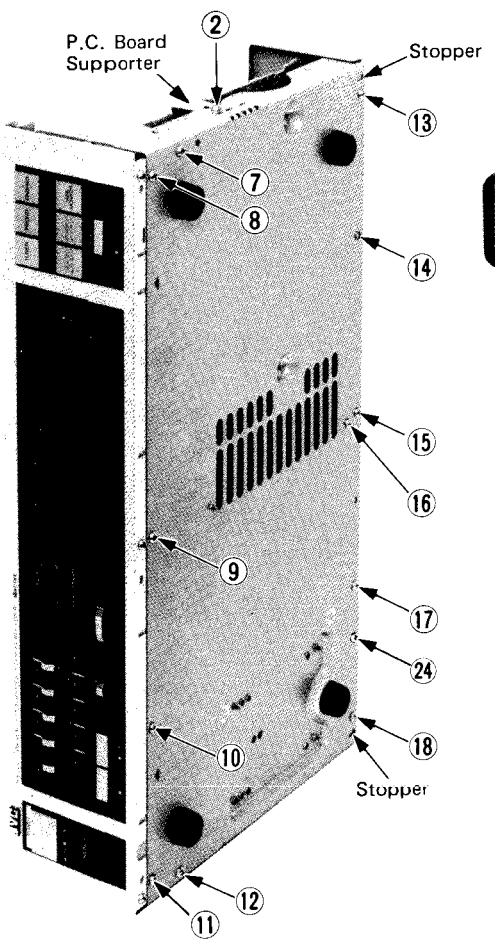


Fig. 2

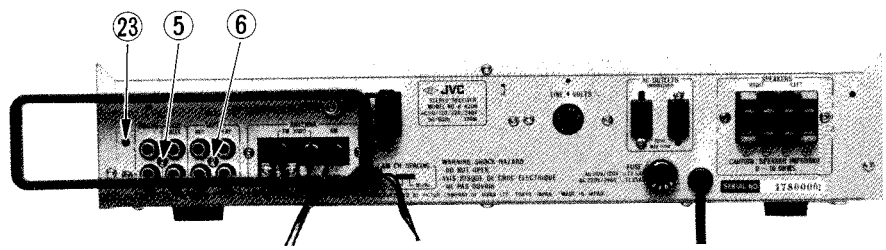


Fig. 3

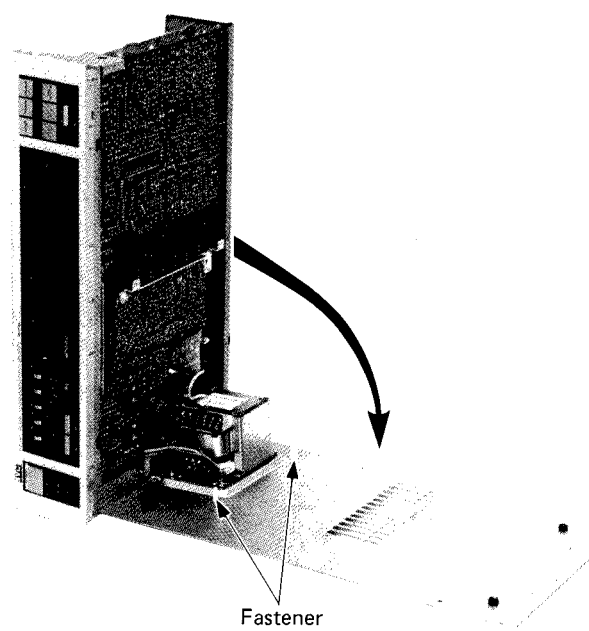


Fig. 4

3-(1) Equalizer PC Board

Step 1 : Detach the PC board supporter by removing screws ① , ② .
Step 2 : Remove screws ③ and ④ which secure the equalizer PC board.
Step 3 : Remove screws ⑤ , ⑥ and ㉓ which secure the pin jacks from the rear side.
Step 4 : Extract the six push-knobs.

3-(2) Bottom Cover

Step 1 : Detach the PC board supporter by removing screws ① and ② .
Step 2 : Remove 13 screws ⑦ through ⑱ and ㉔ securing the bottom cover.
Step 3 : Remove four screws ⑲ through ㉒ securing the tuner PC board and the amplifier PC board.
Step 4 : Detach two fasteners Ⓐ , Ⓑ securing the amplifier PC board.
Step 5 : When above steps 1 through 5 are completed, the bottom cover can be opened, as shown in Fig. 4.

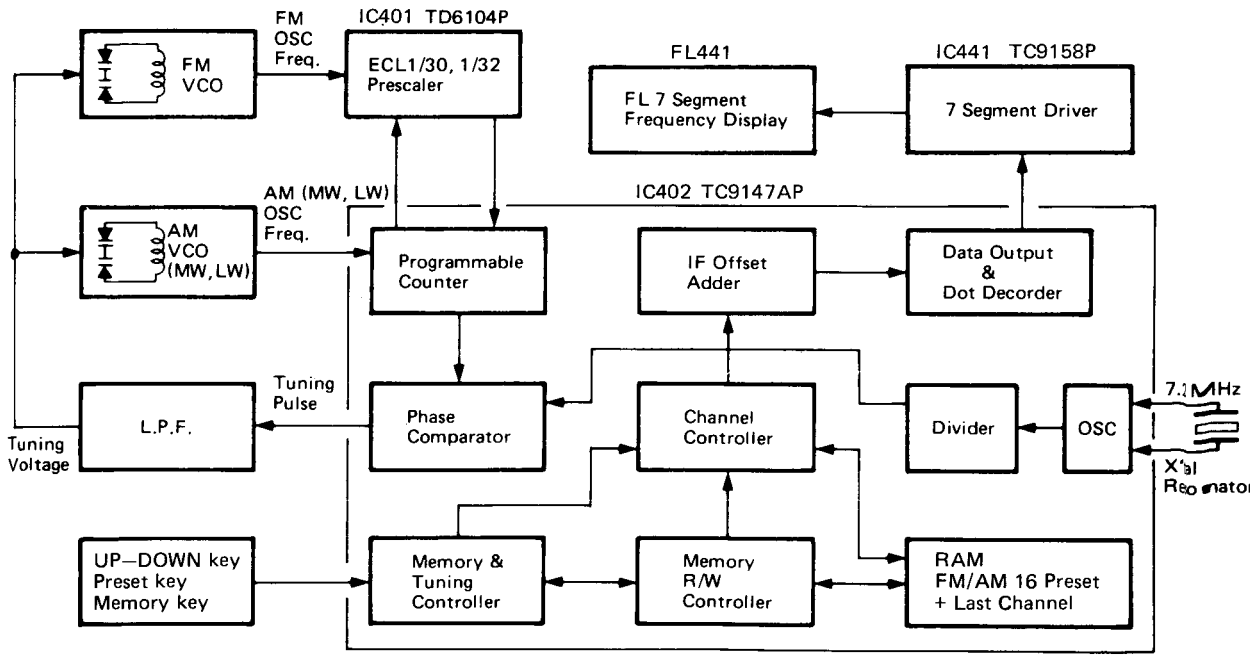
3-(3) Front Bracket

Step 1 : Demount the front panel (remove the three screws and the three plastic rivets).
Step 2 : Remove six screws ⑦ through ⑫ securing the front bracket.
Step 3 : Remove two screws ③ and ④ securing the equalizer PC board.
Step 4 : Remove the four screws securing the push switches at the front side.
Step 5 : Demount the display PC board by removing its two securing screws.
Step 6 : Demount the PC board (ENA-022-5) by removing its one securing plastic rivet.
Step 7 : Remove the one screw securing the tuner PC board at the lower side of PC board (ENA-022-5).
Step 8 : Remove 13 mini-screws securing the slide volumes.

Caution

Two 3-pin sockets are provided on the amplifier PC board. When inserting the 3-core parallel wires into these 3-pin sockets, exercise care not to err on their inserting direction. Sould the wires be inserted in opposite direction, not only the FL tube fails to be illuminated but also hazard develops for R801 and R803 to be burnt and damaged. The 3-core parallel wire extending from the FL PC board must be inserted into P702 of the amplifier PC board and the 3-core parallel wire from the SEA PC board shall be inserted into P703.

4. Block Diagram



Block Diagram of PLL Synthesizer

Fig. 5

5. FM/AM (MW/LW) Tuner Alignment Procedures

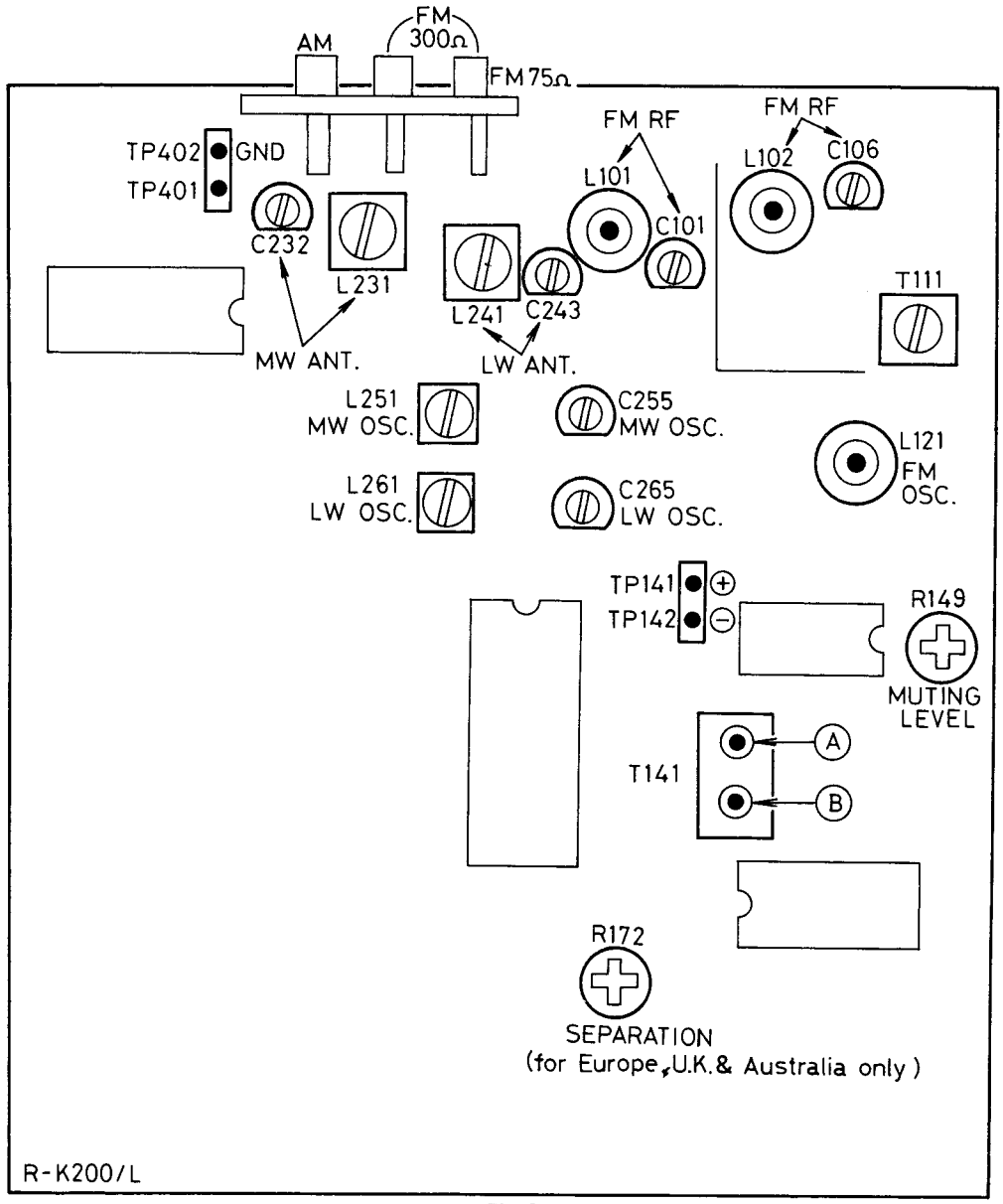


Fig. 6

FM Section

Band Cover

1. Set the frequency display to 108.0 MHz.
2. Connect a DC. VTVM. to TP401 and TP402 (GND).
3. Adjust L121 so that the VTVM. shows 8.00V.
4. And set the frequency display to 87.5 MHz.
5. Check the VTVM. voltage reading 1.60 V ± 0.5 V.

Note: After adjustment, confirm that the band cover is as follows: (for West Germany only)
FM: Low-end 87.5 MHz -300 kHz
High-end 108.0 MHz +500 kHz

Sensitivity

Low Frequency

1. Connect an RF generator to 75 Ω antenna terminals on the rear panel through a dummy antenna. (FM 75 Ω : 75 Ω PAD)
2. Set an RF generator to 90 MHz, a modulation of 1 kHz and a deviation of 75 kHz to provide an input of 1 μV.
3. Connect a VTVM and an oscilloscope to the Rec. out jacks on the rear panel.
4. Set the frequency display to 90 MHz.
5. Adjust coils L101, L102 to maximize the output.

High Frequency

6. Set the RF generator to 106 MHz, a modulation of 1 kHz and a deviation of 75 kHz to provide an input of 1 μV.
7. Set the Frequency Display to 106 MHz.
8. Adjust the FM trimmers C101, C106 to maximize the output.
9. Repeat these high and low frequencies adjustment alternately until maximum sensitivity is obtained.

Descriminator, Distortion and Signal Gain

1. Press to FM position.
2. Connect an RF generator, 1 kHz modulation and a 75 kHz deviation to the antenna terminals on the rear panel through a dummy antenna.
3. Connect an oscilloscope, Distortion Meter and VTVM to the Rec. out jacks on the rear panel.
4. Set the RF generator to 98 MHz, generator output to minimize.
5. Set the Frequency Display to a 98 MHz.
6. Connect a DC VTVM between TP141 and TP142.
7. Adjust the core indicated arrow Ⓐ of T141 for DC VTVM reading of 0 (zero) mV.
8. And set the RF generator output to 0.5 mV.
9. Adjust the core indicated arrow Ⓑ of T141 so that the distortion is minimized.

Stereo Distortion and Stereo Separation

Stereo Distortion

1. Set the stereo signal generator as follows: 400 Hz modulation frequency, 7.5 kHz deviation pilot, 67.5 kHz main and sub carriers. Connect its output to the RF generator.
2. Connect an RF generator to the antenna terminals through a dummy antenna.
3. Connect a VTVM, an oscilloscope and a distortion meter to the Rec. out jacks on the rear panel.
4. Set the RF generator to 98 MHz and output of 0.5 mV.
5. Set the frequency display to 98 MHz.
6. Adjust T111 to minimize stereo distortion.

Stereo Separation (for Europe, U.K. and Australia only)

7. Switch the selector of stereo modulator to left channel modulation.
8. Adjust R172 so that the output of right channel is minimized.
9. Switch the selector of the modulator to right channel modulation.
10. Adjust R172 so that the left channel is minimized.
11. Set R172 to a average, if the separation of left and right is different.

Stereo threshold

12. Adjust R149 so that the stereo indicator is lit by causing the RF generator output to become 14 μV.

AM(MW) Section

Band Cover

1. Press to AM(MW) position.
2. Set the frequency display to 520 kHz (10 kHz channel step), or 522 kHz (9 kHz channel step).
3. Connect DC. VTVM. TP401 and TP402 (GND).
4. Adjust L251 so that the VTVM. shows 0.95 V.
5. And set the frequency display to 1710 kHz (10 kHz channel step), or 1611 kHz (9 kHz channel step).
6. Adjust C255 so that the DC. VTVM. reads 9.00 V for 1710 kHz, or 7.50 V for 1611 kHz.

Tracking and Sensitivity

Note: Be sure to perform this adjustment posterior to the LW tracking adjustment.

1. Connect the loop antenna. Also connect the RF generator to the antenna terminal on the rear panel.
2. Set the generator to 600 kHz (or 603 kHz) with 30 % modulation at 400 Hz.
3. Set the frequency display to 600 kHz, or 603 kHz.
4. Adjust the core of L231 to maximize the output.
5. Set the generator to 1400 kHz, or 1404 kHz.
6. Set the frequency display of the unit to 1400 kHz, or 1404 kHz.
7. Adjust C232 so that the output signal is maximized.
8. Repeat these adjustments (1 ~ 7) alternately untill maximum sensitivity is obtained.

LW Section

Band Cover

1. Press to LW position.
2. Set the frequency display to 153 kHz.
3. Connect a DC. VTVM. to TP401 and TP402 (GND).
4. Adjust L261 so that the VTVM. shows 1.10 V.
5. Set the frequency display to 360 kHz.
6. Adjust C265 so that the VTVM. reads 8.00 V.

Tracking and Sensitivity

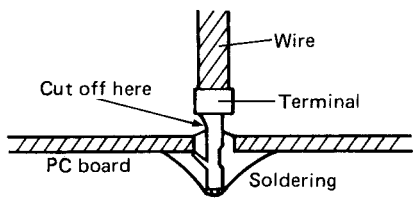
1. Connect the loop antenna. Also connect the RF generator to the antenna terminal on the rear panel.
2. Set the generator to 164 kHz with 30 % modulation at 400 kHz.
3. Set the frequency display to 164 kHz.
4. Adjsut the core of L241 to maximize the output.
5. Set the frequency generator to 353 kHz.
6. Set the frequency display of the unit to 353 kHz.
7. Adjust C243 so that the output signal is maximized.
8. Repeat these adjustments (1 ~ 7) alternately untill maximum sensitivity is obtained.

6. Servicing Method for AWG #20 Wires with Clamping Terminals

(1) Application objective ⇨ Confirmation of safety
Used to prevent breakage/disconnection troubles of primary and secondary wires within PC boards (or between PC boards). Even when wire breakage/disconnection has actually occurred, a safe air-gap distance between the primary wire and the secondary wire/possibly contacting metal surface can be maintained because the terminal retains the wire sheathing.

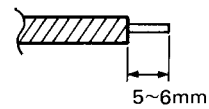
(2) Type of wire used
① 1015 AWG-#20 (single-coated)
② 1672 AWG-#20 (double-coated)

(3) Servicing precautions
① The structural design of this terminal causes its catch to hook onto the PC board, preventing the wire from being easily pulled out. As shown in the figure, use cutting pliers or a similar tool to cut off the ends of the terminal and wire; then remove the remaining terminal clip by melting the soldering.

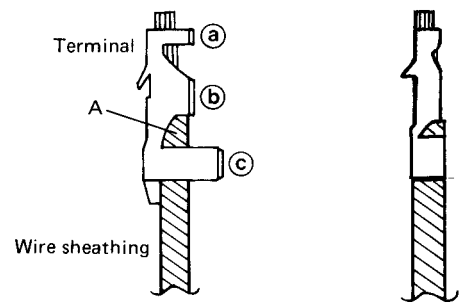


② Prior to soldering the wire onto the PC board, confirm safety by pressure-fitting the terminal to the wire by observing the following procedures.

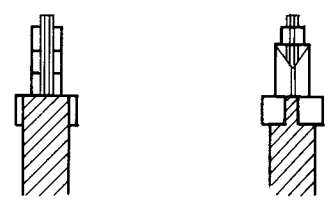
1. Strip off the wire 5 ~ 6 mm from its end.



2. Insert the wire until its sheathing contacts section "A" of the terminal and pressure-fit the terminal clamp at three sections of ⓐ, ⓑ, and ⓒ (section ⓒ is especially important to assure safety. Exercise particular care to achieve secure clamping).

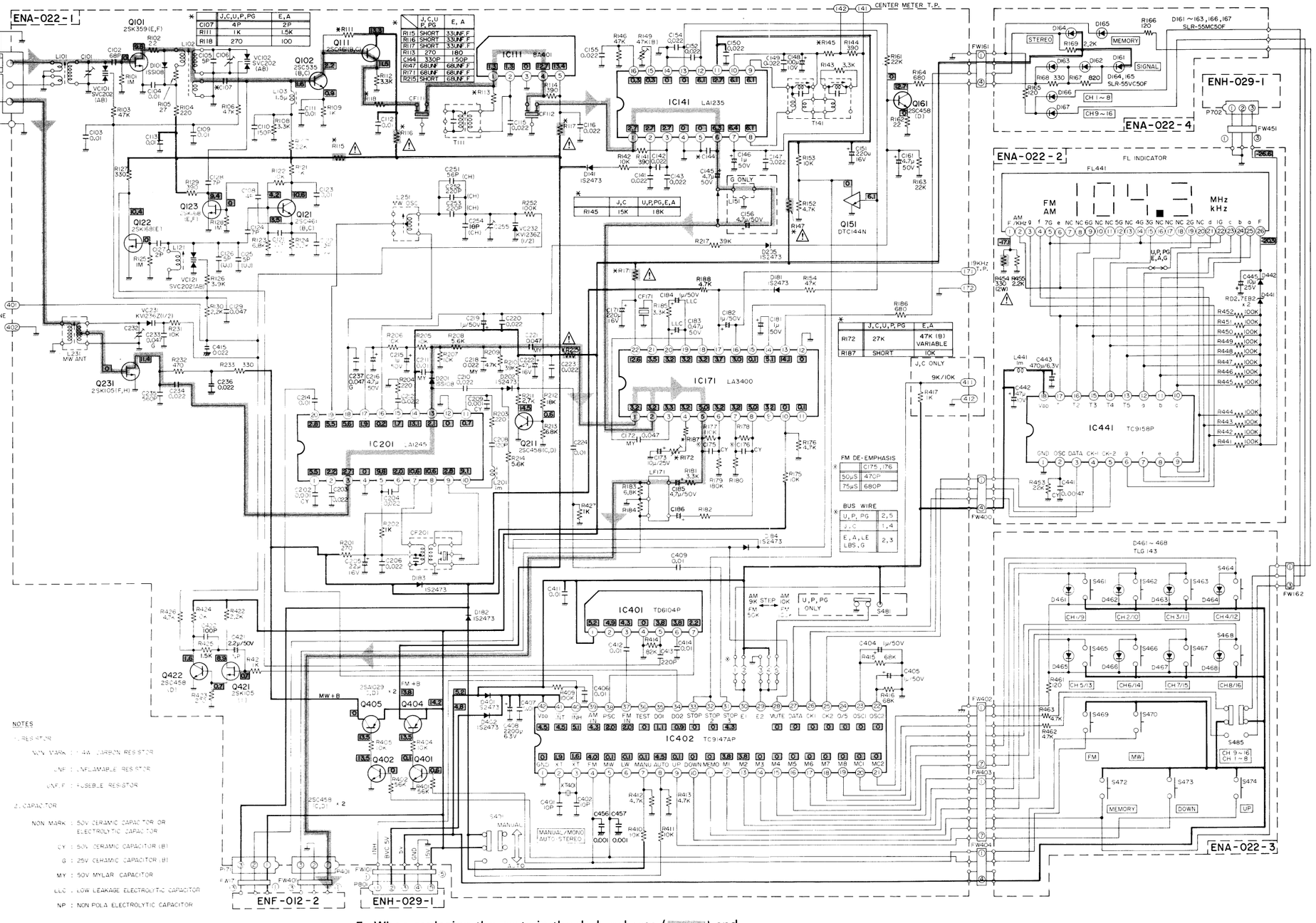


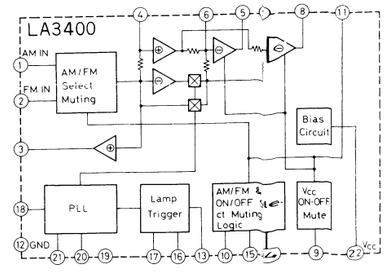
③ Part No., and name
Part No. : 5298T
Name : CRIMP PIN



7. R-K200/R-K200L Schematic Diagram

7-(1) R-K200 Tuner Section

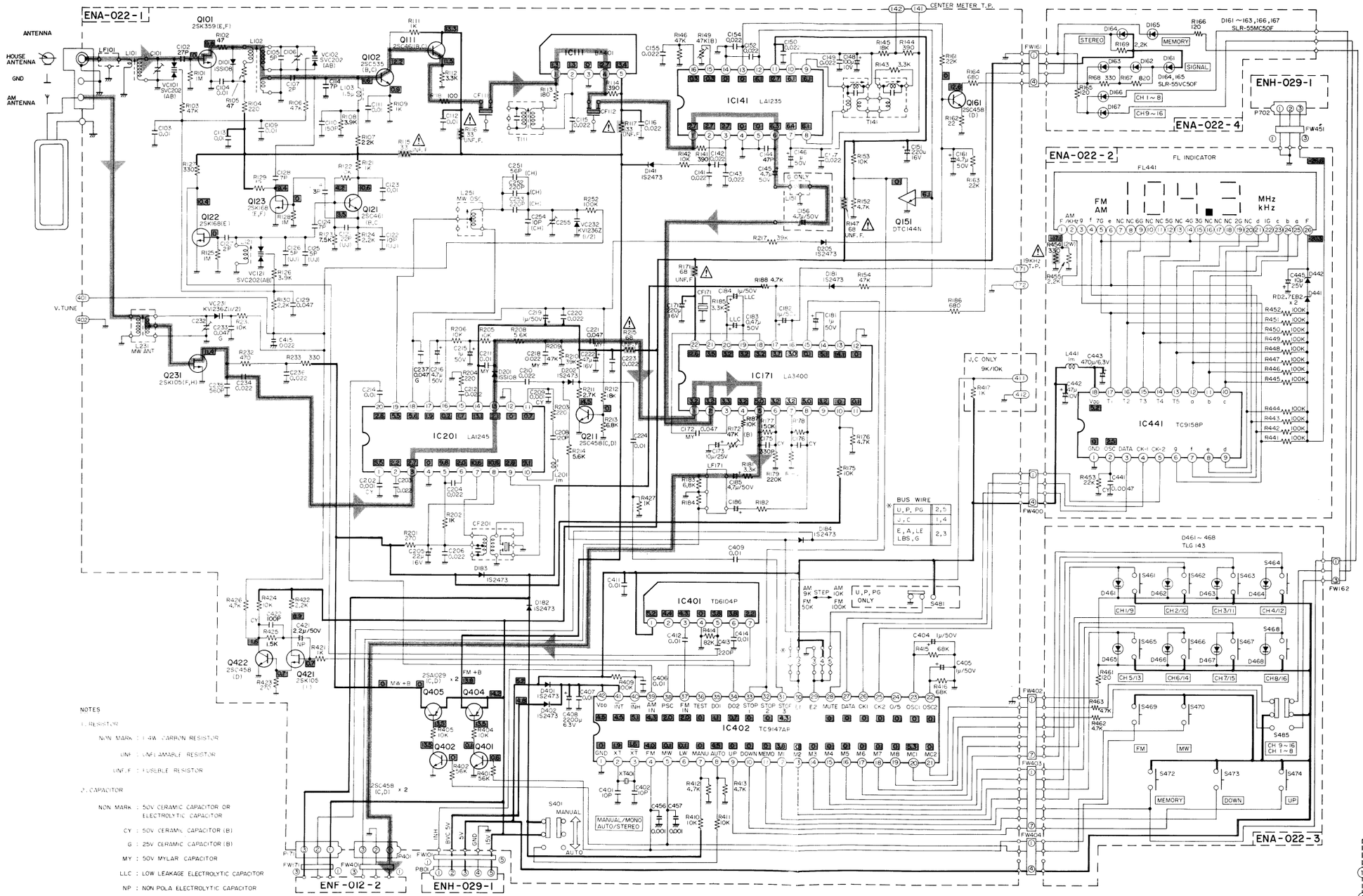




Notes:

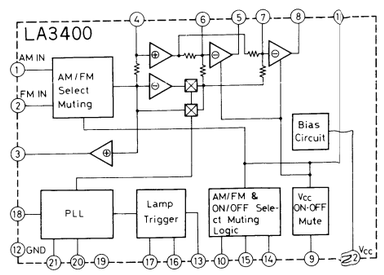
1. ▒▒▒ shows DC voltage to the chassis with no signal input.
2. ——— indicates positive B power supply.
3. - - - - - indicates negative B power supply.
4. ▒▒▒ indicates signal path.
5. When replacing the parts in the darkned area (▒▒▒) and those marked with △, be sure to use the designated parts to ensure safety.
6. This is the standard circuit diagram.
   The design and contents are subject to change without notice.

7-(2) R-K200(G) Tuner Section (for West Germany only)



NOTES

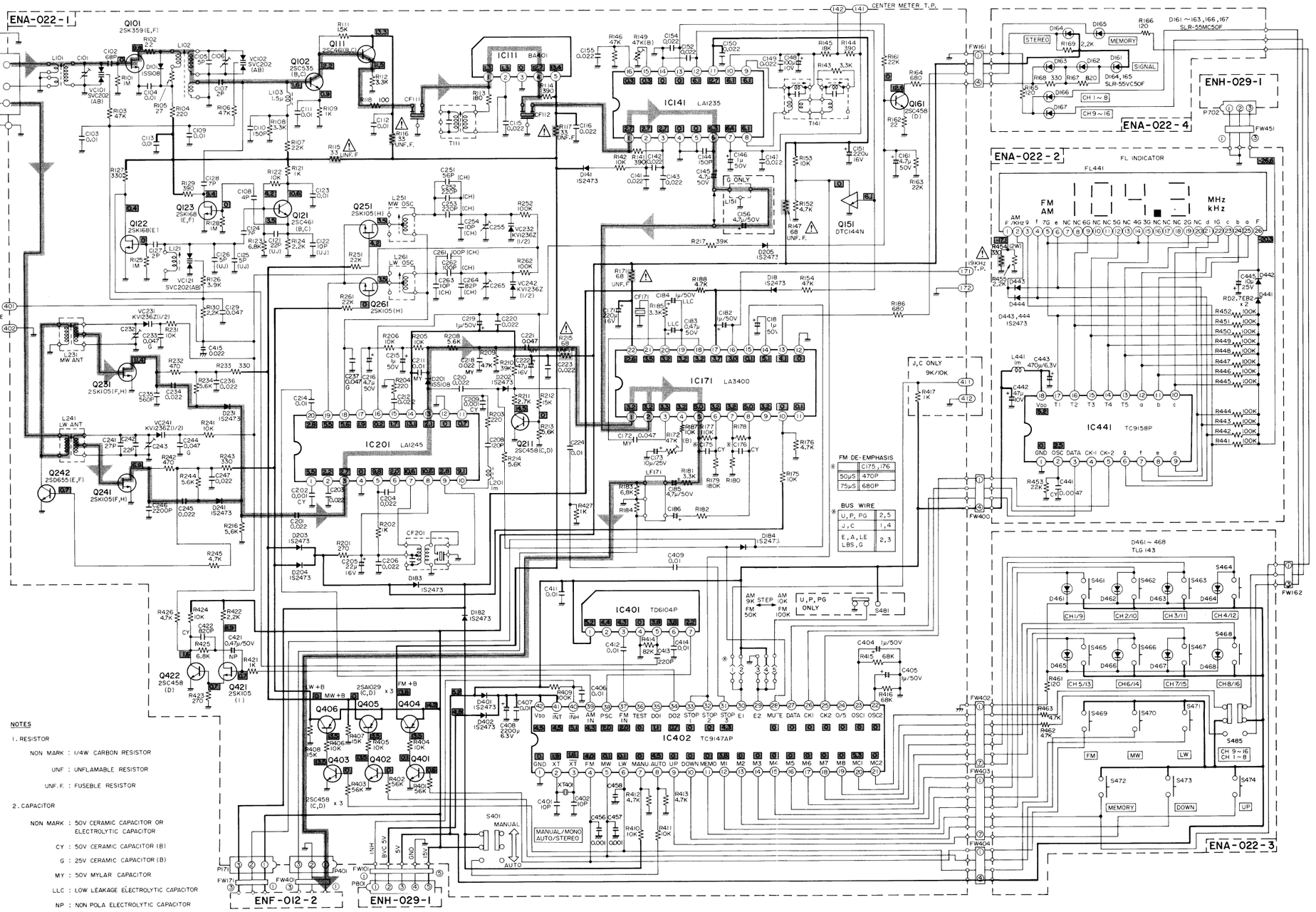
1. RESISTOR
   - NON MARK : 1/4W CARBON RESISTOR
   - UNF : UNFLAMMABLE RESISTOR
   - UNF,F : FUSEBLE RESISTOR
2. CAPACITOR
   - NON MARK : 50V CERAMIC CAPACITOR OR ELECTROLYTIC CAPACITOR
   - CY : 50V CERAMIC CAPACITOR (B)
   - G : 25V CERAMIC CAPACITOR (B)
   - MY : 50V MYLAR CAPACITOR
   - LLC : LOW LEAKAGE ELECTROLYTIC CAPACITOR
   - NP : NON POLA ELECTROLYTIC CAPACITOR



Notes:

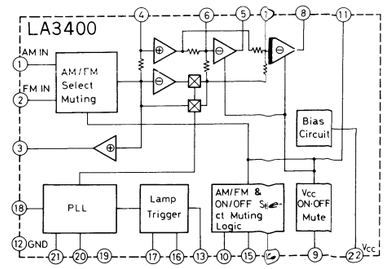
1. ▒▒ shows DC voltage to the chassis with no signal input.
2. ——— indicates positive B power supply.
3. - - - - - indicates negative B power supply.
4. ▒▒ indicates signal path.
5. When replacing the parts in the darkned area (▒▒) and those marked with ⚠, be sure to use the designated parts to ensure safety.
6. This is the standard circuit diagram.
   The design and contents are subject to change without notice.

7-(3) R-K200L Tuner Section

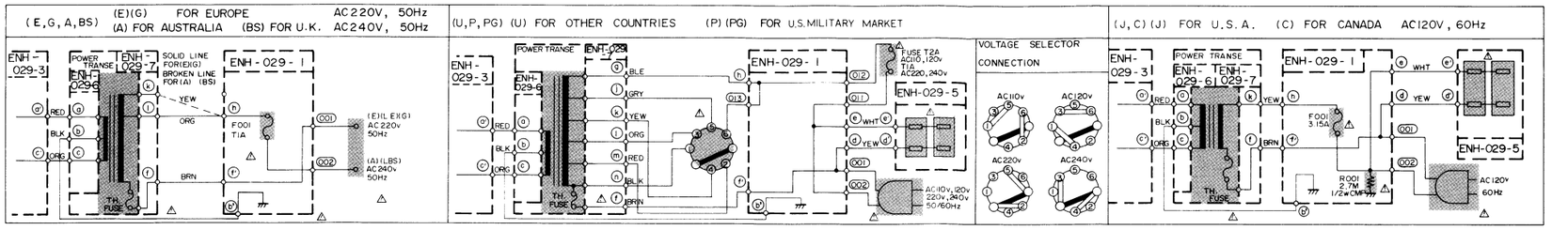


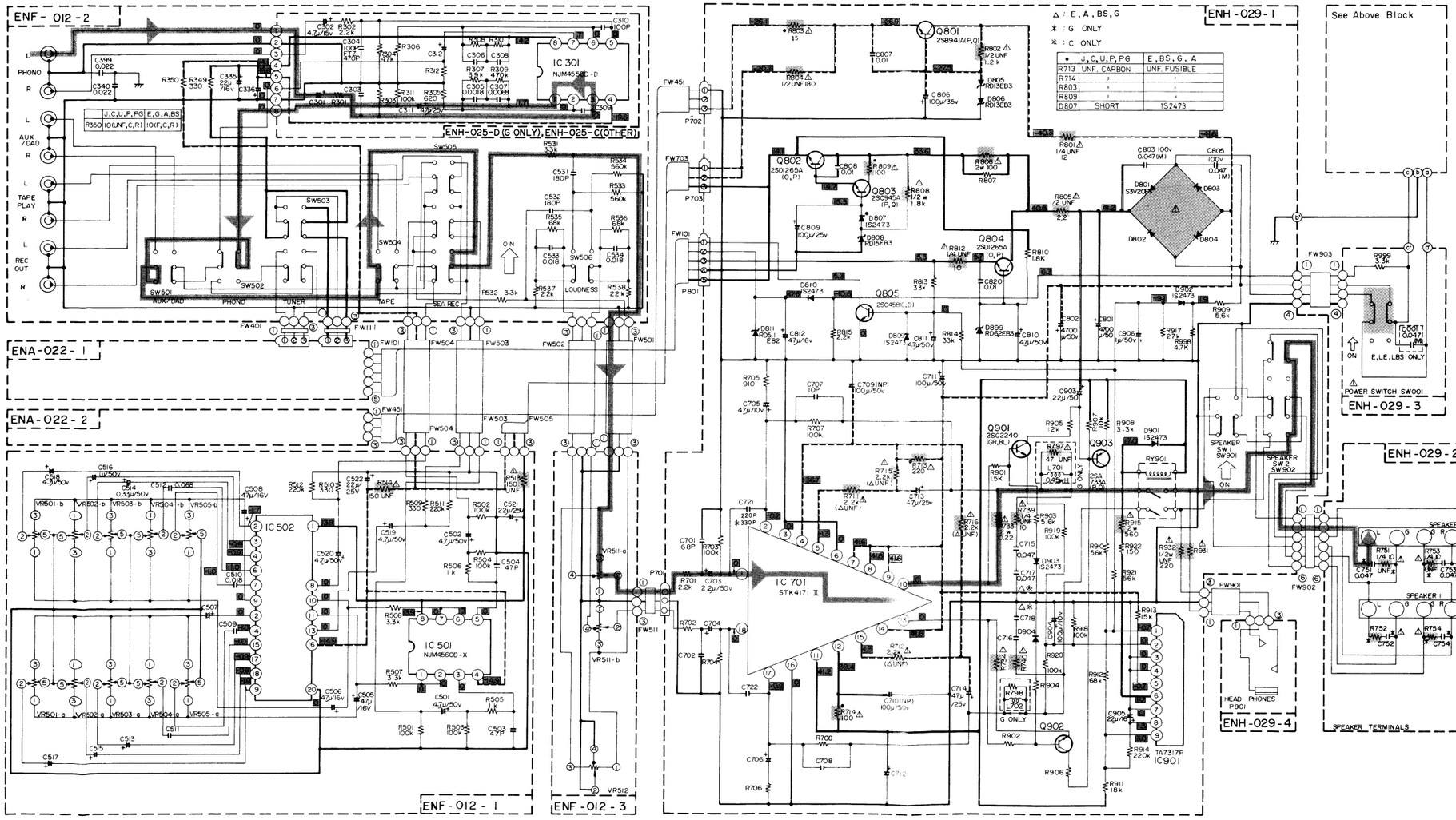
Notes:

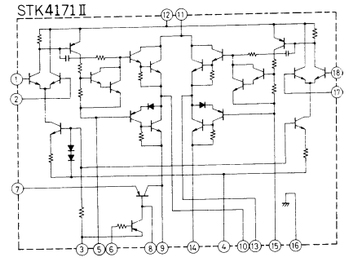
1. ▓▓▓ shows DC voltage to the chassis with no signal input.
2. ——— indicates positive B power supply.
3. ----- indicates negative B power supply.
4. ▓▓▓ indicates signal path.
5. When replacing the parts in the darkned area (▓▓▓) and those marked with ⚠, be sure to use the designated parts to ensure safety.
6. This is the standard circuit diagram.
   The design and contents are subject to change without notice.

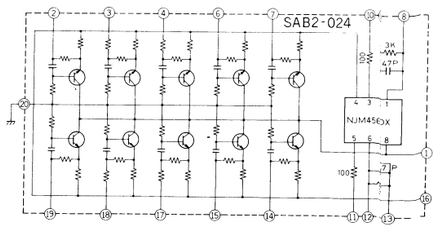


7-(4) R-K200/R-K200L Amplifier Section









Notes:

1. ▬▬ shows DC voltage to the chassis with no signal input.
2. ——— indicates positive B power supply.
3. - - - - - indicates negative B power supply.
4. ▬▬ indicates signal path.
5. When replacing the parts in the darkned area (▬▬) and those marked with △, be sure to use the designated parts to ensure safety.
6. This is the standard circuit diagram.
   The design and contents are subject to change without notice.

– MEMO –

PARTS LIST

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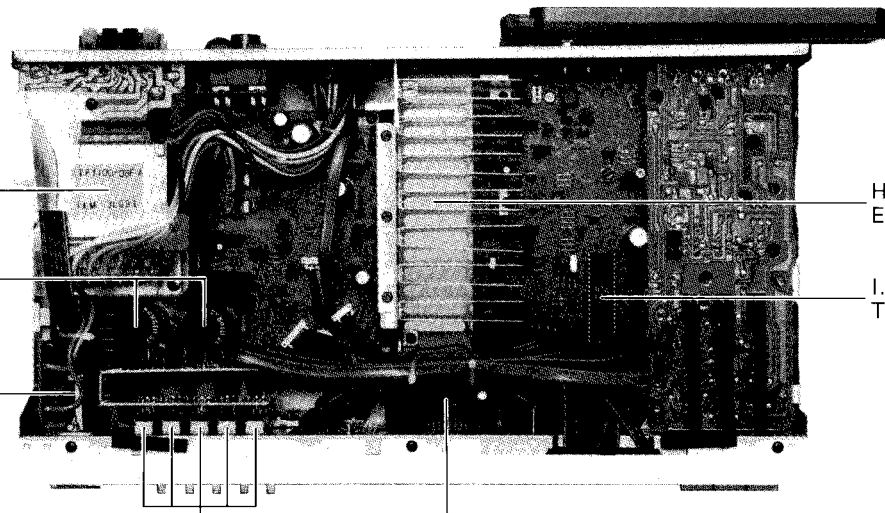
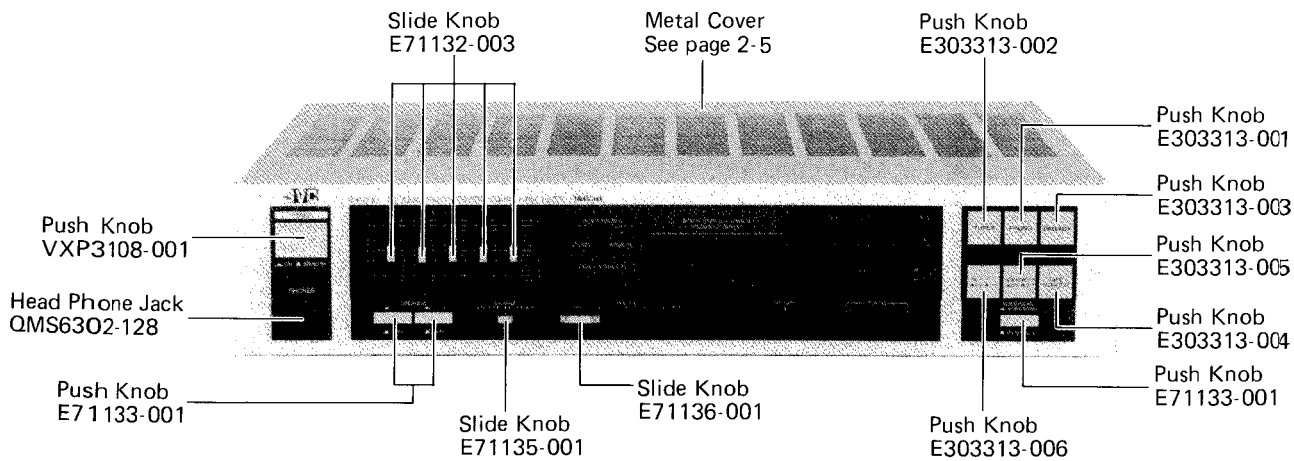
1. Main Parts Locations

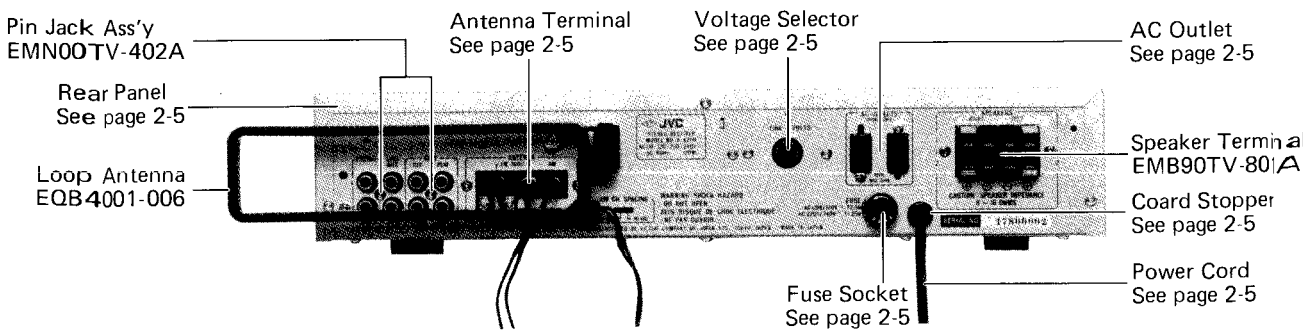
1-(1) Top View



1-(2) Front View

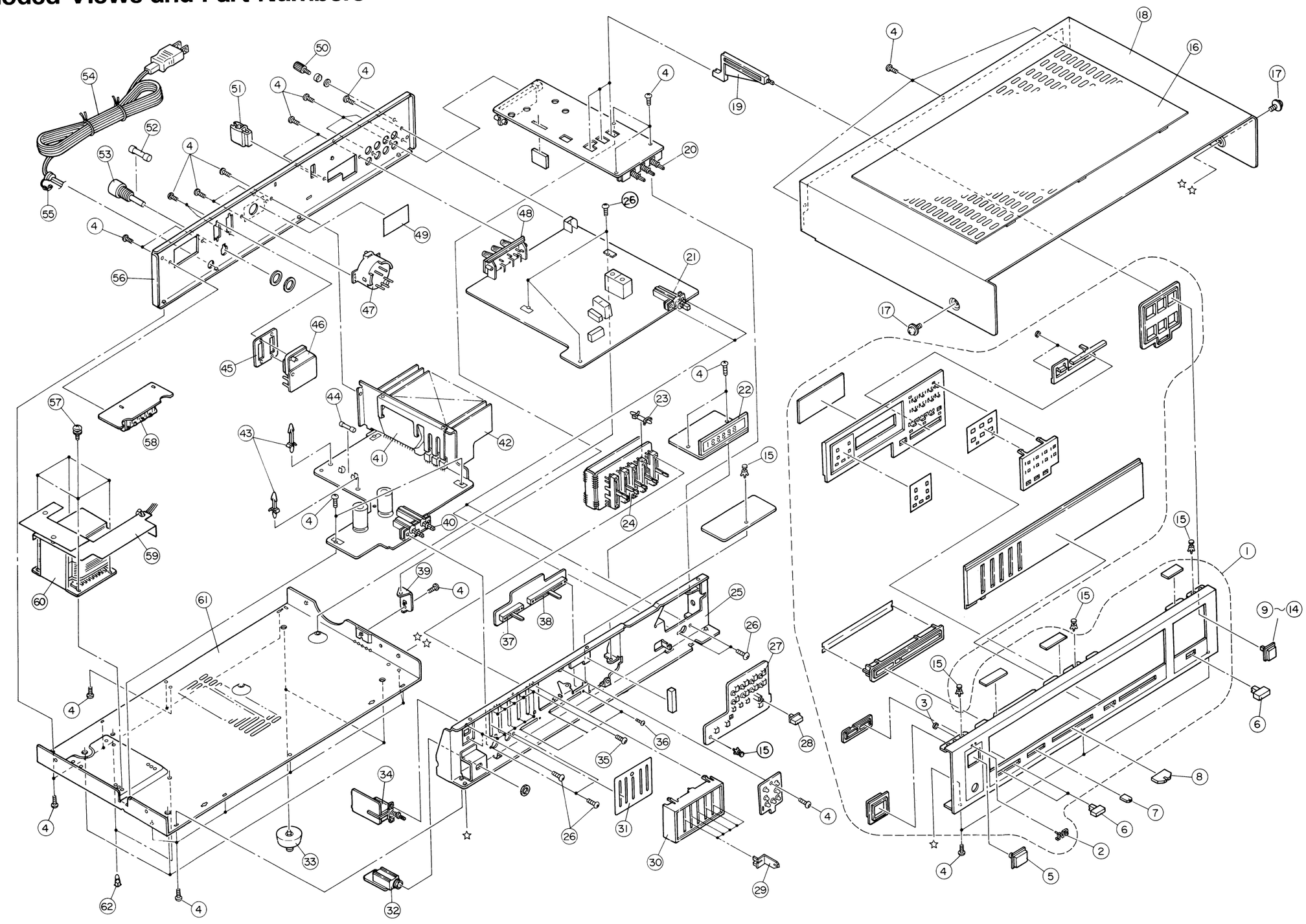


1-(3) Rear View



△ Safety Parts

2. Exploded Views and Part Numbers



Note: Those items shown on the disassembly diagram without indication of reference Nos. are supplied as assembly parts.

No.	Part Number	Part Name	Q'ty	Description	Area
1	EFP-RK200E	Front Panel Ass'y	1		J, C, P, PG, E, A, G, U
	EFP-RK200LE	Front Panel Ass'y	1		LE, LBS
2	E70913-002	JVC Mark	1		
3	E60912-003	Speed Nut	1		
4	SBSB3008N	Tapping Screw	40		
5	VXP3108-001	Push Knob	1	Power	
6	E71133-001	Push Knob	3	SPEAKERS, MODE/SCAN	
7	E71135-001	Slide Knob	1	BALANCE	
8	E71136-001	Slide Knob	1	VOLUME	
9	E303313-001	Push Knob	1	TUNER	
10	E303313-002	Push Knob	1	PHONO	
11	E303313-003	Push Knob	1	DAD AUX	
12	E303313-004	Push Knob	1	TAPE MONITOR	
13	E303313-005	Push Knob	1	LOUDNESS	
14	E303313-006	Push Knob	1	SEA REC	
15	E48729-009	Plastic Rivet	4		
16	E24134-005	Grill	1	METAL COVER	E, LE, LBS
17	E61660-001	Special Screw	2		
18	E24709-001	Metal Cover	1		J, C, P, PG, A
	E24710-001	Metal Cover	1		E, LE, LBS
19	E303314-001	Push Shaft	3		
20	QST4351-E05	Push Switch	1		
21	QST4101-E12	Push Switch	1	MODE/SCAN	
22	ELU0001-016	FL, Tube	1		
23	E300796-001	Fastener	1		
24	QVZ5206-004	Valiable Resistor	5		
25	E10988-001	Front Bracket	1		
26	E65119-001	Special Screw	9		
27	ESP0001-007	Push Switch	14	Tact switch	
28	E303312-001	Push Knob	1		
29	E71132-003	Slide Knob	5	SEA	
30	E303210-001	Knob Guide	1		
31	E71322-003	Felt Spacer	1		
32	QMS6302-128	Headphone Jack	1		
33	E301258-002	Foot	4		
34	QSP2206-001	Power Switch	1	△	
35	SPS42604N	Special Screw	10		
36	E70053-001	Screw	3		
37	QVZ5307-001	Valiable Resistor	1	BALANCE	
38	QVZ5020-001	Valiable Resistor	1	VOLUME	
39	E71289-001	P.C. Board Holder	1		
40	QST4261-E05	Push Switch	1	SPEAKERS	
41	STK4171MK2	IC	1		
42	E303213-002	Heat Sink	1		
43	E302321-001	Fastener	2		
44	QMF61U1-3R15	Fuse	1	△	J, C
	QMF51A2-1R0L	Fuse	1	△	E, A, G, LE
	QMF51A2-1R0BS	Fuse	1	△	LBS
45	E69589-002	Spacer	1	AC Outlet	J
46	QMC0437-002	AC Outlet	1		J, C, P, PG, U
47	QSR0085-0016	Voltage Selector	1		U, P, PG
48	E3572-016	Antenna Terminal	1		J, C, P, PG, E, A, LE, LBS, U
	EMB01YV-201A	Antenna Terminal	1		G
49	E67199-001	Caution Label	1		J
	E65507-001	Coution Label	1		C
50	E70078-001	GND Terminal	1		
51	E302334-001	Antenna Holder	1		
52	QMF51A2-2R0L	Fuse	1	2A, 250 V	P
	QMF51A2-1R0L	Fuse	1	1A, 250 V	PG, U
53	QMG0301-003	Fuse Socket	1	REAR PANEL	P, PG, U
54	QMP1200-200	Power Cord	1		J
	QMP1900-200	Power Cord	1		C
	QMP2560-244	Power Cord	1		A
	QMP3900-200	Power Cord	1		E, G, LE
	QMP7600-200	Power Cord	1		P, PG, U
	QMP9017-008	Power Cord	1		CBS
55	QHS3876-162	Coard Stopper	1		J, C, P, PG, E, A, G, LE, U
	QHS3876-162BS	Coard Stopper	1		LBS
56	E10989-001	Rear Panel	1		J
	E10989-002	Rear Panel	1		P, PG, U
	E10989-003	Rear Panel	1		E, A, LE, LBS
	E10989-004	Rear Panel	1		G
	E10989-005	Rear Panel	1		C
57	E65389-002	Special Screw	4		
58	EMB90TV-801A	Speaker Terminal	1		
59	E303398-001	Cover	1	Power Transformer	
60	ETP1100-06JA	Power Transformer	1	△	J
	ETP1100-06CA	Power Transformer	1	△	C
	ETP1100-06FA	Power Transformer	1	△	P, PG, U
	ETP1100-06EA	Power Transformer	1	△	E, A, G, LE
	ETP1100-006EABS	Power Transformer	1	△	LBS
61	E10949-002	Chassis Base	1		
62	E303216-001	Fastener	2		

△ Safety parts

The Marks for Designated Areas.	
G ..... West Germany	J ..... U.S.A.
A ..... Australia	C ..... Canada
LBS ..... U.K.	P. PG ..... U.S. Military
U ..... Other Countries	E, LE ..... Europe

3. Printed Circuit Board Ass'y and Part List

3-(1) ENA-022 □ Tuner P.C. Board Ass'y

Note: ENA-022□ varies according to the areas employed. See note (1) when placing an order.

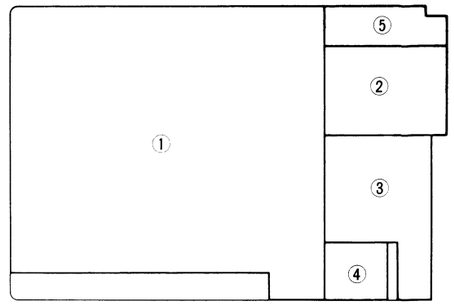
Note (1)

Designated Areas	P.C. Board Ass'y
U.S.A., Canada	ENA-022 [A]
U.S. Military Market Other Countries	ENA-022 [B]
Europe, Australia	ENA-022 [C]
West Germany	ENA-022 [D]
Europe, U.K.	ENA-022 [E]

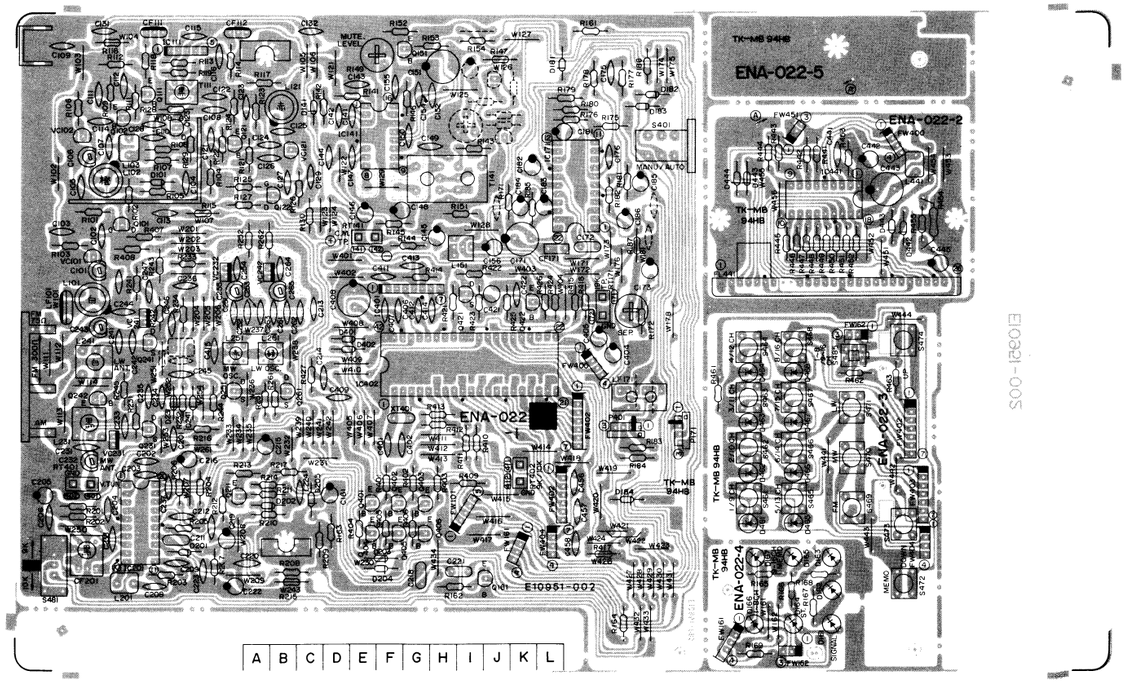
Note (2)

The symbols (赤、黒、白 ..... etc.) on P.C. Board surface are factory process only.

Each Individual P.C. Board Location



① ENA-022□-1 Tuner P.C. Board Ass'y
② ENA-022-2 Display P.C. Board Ass'y
③ ENA-022-3 Switch P.C. Board Ass'y
④ ENA-022-4 LED P.C. Board Ass'y
⑤ ENA-022-5 Shield P.C. Board Ass'y



The Marks by Designated Area

A ..... U.S.A., Canada
B ..... U.S. Military Market, Other Countries
C ..... Europe, Australia
D ..... West Germany
E ..... Europe, U.K.

Transistors

ITEM	PART NUMBER	DESCRIPTION	MAKER	
Q101	2SK359(E,F)	F.E.T.	HITACHI	
Q102	2SC535(B,C)	SILICON	HITACHI	
Q111	2SC461(B,C)	SILICON	HITACHI	
Q121	2SC461(B,C)	SILICON	HITACHI	
Q122	2SK168(E)	F.E.T.	HITACHI	
Q123	2SK168(E)	F.E.T.	HITACHI	
Q123	2SK168(E,F)	F.E.T.		
Q123	2SK168(E,F)	F.E.T.		
Q151	DTC144N	SILICON		
Q161	2SC458(D)	SILICON	HITACHI	
Q211	2SC458(C,D)	SILICON	HITACHI	
Q231	2SK105(F,H)	F.E.T.	NEC	
Q241	2SK105(F,H)	F.E.T.	NEC	E
Q242	2SD655(E,F)	SILICON	HITACHI	E
Q251	2SK105(H)	F.E.T.	NEC	E
Q261	2SK105(H)	F.E.T.	NEC	E
Q401	2SC458(C,D)	SILICON	HITACHI	
Q402	2SC458(C,D)	SILICON	HITACHI	
Q403	2SC458(C,D)	SILICON	HITACHI	E
Q404	2SA1029(C,D)	SILICON	HITACHI	
Q405	2SA1029(C,D)	SILICON	HITACHI	
Q406	2SA1029(C,D)	SILICON	HITACHI	E
Q421	2SK105(1)	F.E.T.	NEC	
Q422	2SC458(D)	SILICON	HITACHI	

ICs

ITEM	PART NUMBER	DESCRIPTION	MAKER
IC111	BA401		
IC141	LA1235		SANYO
IC171	LA3400		SANYO
IC201	LA1245		SANYO
IC401	TD6104P		TOSHIBA
IC402	TC9147AP		TOSHIBA
IC441	TC9158P		TOSHIBA

Diodes

ITEM	PART NUMBER	DESCRIPTION	MAKER
D101	1SS108	SILICON	
D141	1S2473	SILICON	
D161	SLR-55MC50F	L.E.D.	
D162	SLR-55MC50F	L.E.D.	
D163	SLR-55MC50F	L.E.D.	
D164	SLR-55VC50F	L.E.D.	
D165	SLR-55VC50F	L.E.D.	
D166	SLR-55MC50F	L.E.D.	
D167	SLR-55MC50F	L.E.D.	
D181	1S2473T-77	SILICON	
D182	1S2473	SILICON	
D183	1S2473	SILICON	
D184	1S2473	SILICON	
D201	1SS108	SILICON	
D202	1S2473	SILICON	

Diodes

ITEM	PART NUMBER	DESCRIPTION		
D203	1S2473	SILICON		E
D204	1S2473	SILICON		E
D205	1S2473	SILICON		
D231	1S2473	SILICON		E
D241	1S2473	SILICON		E
D401	1S2473	SILICON		
D402	1S2473	SILICON		
D441	RD2.7EB2	SILICON	NEC	
D442	RD2.7EB2	SILICON	NEC	
D443	1S2473	SILICON		E
D444	1S2473	SILICON		E
D461	TLG143(E,F)	L.E.D.	TOSHIBA	
D462	TLG143(E,F)	L.E.D.	TOSHIBA	
D463	TLG143(E,F)	L.E.D.	TOSHIBA	
D464	TLG143(E,F)	L.E.D.	TOSHIBA	
D465	TLG143(E,F)	L.E.D.	TOSHIBA	
D466	TLG143(E,F)	L.E.D.	TOSHIBA	
D467	TLG143(E,F)	L.E.D.	TOSHIBA	
D468	TLG143(E,F)	L.E.D.	TOSHIBA	
VC101	SVC202(AB)	SILICON	SANYO	
VC102	SVC202(AB)	SILICON	SANYO	
VC121	SVC202(AB)	SILICON	SANYO	
VC231	KV1236	SILICON	TOKO	
VC232	**KV1236**	**SILICON**	**TOKO**	
VC241	KV1236	SILICON	TOKO	E
VC242	KV1236	SILICON	TOKO	E

Coils

ITEM	PART NUMBER	DESCRIPTION	
L101	EQR2304-004	RF COIL	D
L101	EQR2304-005	OSC COIL	A
L101	EQR2304-005	OSC COIL	B
L101	EQR2304-005	OSC COIL	C
L101	EQR2304-005	OSC COIL	E
L102	EQR2304-006	RF COIL	
L103	EQL3001-1R5K	INDUCTOR	
L121	EQR2404-004	RF COIL	
L201	EQL3001-102K	INDUCTOR	
L231	EQR1111-006	RF COIL	
L241	EQR1111-005	RF COIL	E
L251	EQR1207-003	RF COIL	
L261	EQR1307-002	RF COIL	E
L441	EQL3001-102K	INDUCTOR	
T111	EQT2121-005	I.F.T	
T141	EQT2140-003	I.F.T	

Capacitors

ITEM	PART NUMBER	DESCRIPTION			
C101	ENZ1003-002			TRIMMER	
C102	QCS31HJ-680	68PF	50V	CERAMIC	A
C102	QCS31HJ-680	68PF	50V	CERAMIC	B
C102	QCS31HJ-680	68PF	50V	CERAMIC	C
C102	QCS31HJ-680	68PF	50V	CERAMIC	D
C102	QCS31HJ-680	68PF	50V	CERAMIC	E
C103	QCF31HP-103	0.01MF	50V	CERAMIC	
C104	QCF31HP-103	0.01MF	50V	CERAMIC	
C105	QCS31HJ-5R0	5PF	50V	CERAMIC	
C106	ENZ1003-002			TRIMMER	
C107	QCS31HJ-2R0	2PF	50V	CERAMIC	C
C107	QCS31HJ-2R0	2PF	50V	CERAMIC	D
C107	QCS31HJ-2R0	2PF	50V	CERAMIC	E
C107	QCS31HJ-4R0	4PF	50V	CERAMIC	A
C107	QCS31HJ-4R0	4PF	50V	CERAMIC	B
C108	QCS31HJ-3R0	3PF	50V	CERAMIC	D
C108	QCS31HJ-4R0	4PF	50V	CERAMIC	A
C108	QCS31HJ-4R0	4PF	50V	CERAMIC	B
C108	QCS31HJ-4R0	4PF	50V	CERAMIC	C
C108	QCS31HJ-4R0	4PF	50V	CERAMIC	E
C109	QCF31HP-103	0.01MF	50V	CERAMIC	
C110	QCS31HJ-151	150PF	50V	CERAMIC	
C111	QCF31HP-103	0.01MF	50V	CERAMIC	
C112	QCF31HP-103	0.01MF	50V	CERAMIC	
C113	QCF31HP-103	0.01MF	50V	CERAMIC	

Capacitors

ITEM	PART NUMBER	DESCRIPTION			
C114	QCS31HJ-5R0	5PF	50V	CERAMIC	D
C115	QCF31HP-223	0.022MF	50V	CERAMIC	
C116	QCF31HP-223	0.022MF	50V	CERAMIC	
C121	QCT25UJ-220	22PF	50V	CERAMIC	
C122	QCT25UJ-100	10PF	50V	CERAMIC	
C123	QCF31HP-103	0.01MF	50V	CERAMIC	
C124	QCS31HJ-7R0	7PF	50V	CERAMIC	
C125	QCT25UJ-5R0	5PF	50V	CERAMIC	
C126	QCT25UJ-5R0	5PF	50V	CERAMIC	
C127	QCS31HJ-2R0	2PF	50V	CERAMIC	
C128	QCS31HJ-7R0	7PF	50V	CERAMIC	
C129	QCF31HP-473	0.047MF	50V	ELECTORO	
C141	QCF31HP-223	0.022MF	50V	CERAMIC	
C142	QCF31HP-223	0.022MF	50V	CERAMIC	
C143	QCF31HP-223	0.022MF	50V	CERAMIC	
C144	QCS31HJ-331	330PF	50V	CERAMIC	A
C144	QCS31HJ-331	330PF	50V	CERAMIC	B
C144	QCS31HJ-151	150PF	50V	CERAMIC	C
C144	QCS31HJ-151	150PF	50V	CERAMIC	E
C144	QCS31HJ-470	47PF	50V	CERAMIC	D
C145	**QET61HM-225**	**2.2MF**	50V	ELECTORO	
C146	QET61HM-105	1MF	50V	ELECTORO	
C147	QCF31HP-223	0.022MF	50V	CERAMIC	
C148	QET51AM-107	100MF	10V	ELECTORO	
C149	QCF31HP-223	0.022MF	50V	CERAMIC	
C150	QCF31HP-223	0.022MF	50V	CERAMIC	
C151	QET51CM-227	220MF	10V	ELECTORO	
C152	QCF31HP-223	0.022MF	50V	CERAMIC	
C154	QCF31HP-223	0.022MF	50V	CERAMIC	
C155	QCF31HP-223	0.022MF	50V	CERAMIC	
C156	QET61EM-106	10MF	25V	ELECTORO	D
C161	QET61HM-475	4.7MF	50V	ELECTORO	
C171	QET51CM-227	220MF	10V	ELECTORO	
C172	QFN31HK-473	0.047MF	50V	MYLAR	
C173	QET61EM-106	10MF	25V	ELECTORO	
C175	QCY31HK-331	330PF	50V	CERAMIC	D
C175	QCY31HK-471	470PF	50V	CERAMIC	C
C175	QCY31HK-471	470PF	50V	CERAMIC	E
C175	QCY31HK-681	680PF	50V	CERAMIC	A
C175	QCY31HK-681	680PF	50V	CERAMIC	B
C176	QCY31HK-331	330PF	50V	CERAMIC	D
C176	QCY31HK-471	470PF	50V	CERAMIC	C
C176	QCY31HK-471	470PF	50V	CERAMIC	E
C176	QCY31HK-681	680PF	50V	CERAMIC	A
C176	QCY31HK-681	680PF	50V	CERAMIC	B
C181	QET61HM-105	1MF	50V	ELECTORO	
C182	QET61HM-105	1MF	50V	ELECTORO	
C183	**QEN61HM-474**	0.47MF	50V	L.L.C.E	
C184	**QEN61HM-105**	1MF	50V	L.L.C.E	
C185	QET61HM-475	4.7MF	50V	ELECTORO	
C186	QET61HM-475	4.7MF	50V	ELECTORO	
C201	QCF31HP-223	0.022MF	50V	CERAMIC	E
C202	QCY31HK-102	1000PF	50V	CERAMIC	
C203	QCF31HP-223	0.022MF	50V	CERAMIC	
C204	QCF31HP-223	0.022MF	50V	CERAMIC	
C205	QET61CM-226	22MF	16V	ELECTORO	
C206	QCF31HP-223	0.022MF	50V	CERAMIC	
C208	QCS31HJ-121	120PF	50V	CERAMIC	
C209	QCY31HK-102	1000PF	50V	CERAMIC	
C210	QCF31HP-223	0.022MF	50V	CERAMIC	
C211	QFN31HK-103	0.01MF	50V	MYLAR	
C212	QCF31HP-223	0.022MF	50V	CERAMIC	
C214	QCF31HP-103	0.01MF	50V	CERAMIC	
C215	QET61HM-105	1MF	50V	ELECTORO	
C216	QET61HM-475	4.7MF	50V	ELECTORO	
C218	QFN31HK-223	22MF 50V		MYLAR	
C219	QET61HM-105	1MF	50V	ELECTORO	
C220	QCF31HP-223	0.022MF	50V	CERAMIC	
C221	**QFN31HK-473**	0.015MF	50V	MYLAR	

Capacitors

ITEM	PART NUMBER	DESCRIPTION			
C222	QET51CM-476	47MF	16V	ELECTORO	
C223	QCF31HP-223	0.022MF	50V	CERAMIC	
C224	QCF31HP-103	0.01MF	50V	CERAMIC	
C232	ENZ1003-006			TRIMMER	
C233	QCC31EM-473			CERAMIC	
C234	QCF31HP-223	0.022MF	50V	CERAMIC	
C235	QCS31HJ-561	560PF	50V	CERAMIC	
C236	QCF31HP-223	0.022MF	50V	CERAMIC	
C237	**QCC31EM-473**	**0.047MF**	**25V**	**CERAMIC**	E
C241	QCS31HJ-270	27PF	50V	CERAMIC	E
C242	QCS31HJ-220	22PF	50V	CERAMIC	E
C243	ENZ1003-006			TRIMMER	E
C244	QCC31EM-473			CERAMIC	E
C245	QCF31HP-223	0.022MF	50V	CERAMIC	E
C246	QCF31HP-222	0.022MF	50V	CERAMIC	E
C247	QCF31HP-223	0.022MF	50V	CERAMIC	E
C251	QCT25CH-560	56PF	50V	CERAMIC	
C252	QCT25CH-221	220PF	50V	CERAMIC	
C253	QCT25CH-221	220PF	50V	CERAMIC	
C254	QCT25CH-100	10PF	50V	CERAMIC	
C255	ENZ1003-006			TRIMMER	
C261	QCT25CH-101	100PF	50V	CERAMIC	E
C262	QCT25CH-101	100PF	50V	CERAMIC	E
C263	QCT25CH-100	10PF	50V	CERAMIC	E
C264	QCT25CH-820	82PF	50V	CERAMIC	E
C265	ENZ1003-006			TRIMMER	E
C401	QCS31HJ-100	10PF	50V	CERAMIC	
C402	QCS31HJ-100	10PF	50V	CERAMIC	
C404	QET61HM-105	1MF	50V	ELECTORO	
C405	QET61HM-105	1MF	50V	ELECTORO	
C406	QCF31HP-103	0.01MF	50V	CERAMIC	
C407	QCF31HP-103	0.01MF	50V	CERAMIC	
C408	QET50JM-228			ELECTORO	
C409	QCF31HP-103	0.01MF	50V	CERAMIC	
C411	QCF31HP-103	0.01MF	50V	CERAMIC	
C412	QCF31HP-103	0.01MF	50V	CERAMIC	
C413	QCS31HJ-221	220PF	50V	CERAMIC	
C414	QCF31HP-103	0.01MF	50V	CERAMIC	
C415	QCF31HP-223	0.022MF	50V	CERAMIC	
C421	QEN61HM-225	2.2MF	50V	NONPOLE	A
C421	QEN61HM-225	2.2MF	50V	NONPOLE	B
C421	QEN61HM-225	2.2MF	50V	NONPOLE	C
C421	QEN61HM-225	2.2MF	50V	NONPOLE	D
C421	QEN61HM-474	0.47MF	50V	NONPOLE	E
C422	QCY31HK-821	820PF	50V	CERAMIC	E
C422	QCS31HJ-101	100PF	50V	CERAMIC	A
C422	QCS31HJ-101	100PF	50V	CERAMIC	B
C422	QCS31HJ-101	100PF	50V	CERAMIC	C
C422	QCS31HJ-101	100PF	50V	CERAMIC	D
C441	QCY31HK-472	4700PF	50V	CERAMIC	
C443	QET50JM-477			ELECTORO	
C445	QET61EM-106	10MF	25V	ELECTORO	
C456	QCF31HP-102	1000PF	50V	CERAMIC	
C457	QCF31HP-102	1000PF	50V	CERAMIC	
C458	QCF31HP-102	1000PF	50V	CERAMIC	E

Resistors

ITEM	PART NUMBER	DESCRIPTION			
R101	QRD141J-105S	1M	1/4W	CARBON	
R102	QRD141J-220S	22	1/4W	CARBON	A
R102	QRD141J-220S	22	1/4W	CARBON	B
R102	QRD141J-220S	22	1/4W	CARBON	C
R102	QRD141J-220S	22	1/4W	CARBON	D
R102	QRD141J-220S	22	1/4W	CARBON	E
R103	QRD141J-473S	47K	1/4W	CARBON	
R104	QRD141J-221S	220	1/4W	CARBON	
R105	QRD141J-270S	27	1/4W	CARBON	A
R105	QRD141J-270S	27	1/4W	CARBON	B
R105	QRD141J-270S	27	1/4W	CARBON	C
R105	QRD141J-270S	27	1/4W	CARBON	E
R105	QRD148J-6R8S	6.8	1/4W	CARBON	D
R106	QRD141J-473S	47K	1/4W	CARBON	
R107	QRD141J-223S	22K	1/4W	CARBON	A
R107	QRD141J-223S	22K	1/4W	CARBON	B
R107	QRD141J-223S	22K	1/4W	CARBON	C
R107	QRD141J-223S	22K	1/4W	CARBON	E
R107	QRD141J-273S	27K	1/4W	CARBON	D
R108	QRD141J-332S	3.3K	1/4W	CARBON	
R109	QRD141J-102S	1K	1/4W	CARBON	A
R109	QRD141J-102S	1K	1/4W	CARBON	B
R109	QRD141J-102S	1K	1/4W	CARBON	C
R109	QRD141J-102S	1K	1/4W	CARBON	D
R109	QRD141J-102S	1K	1/4W	CARBON	E
R111	**QRD141J-102S**	**1K**	**1/4W**	**CARBON**	A
R111	**QRD141J-102S**	**1K**	**1/4W**	**CARBON**	B
R111	**QRD141J-152S**	**1.5K**	**1/4W**	**CARBON**	C
R111	**QRD141J-152S**	**1.5K**	**1/4W**	**CARBON**	D
R111	**QRD141J-152S**	**1.5K**	**1/4W**	**CARBON**	E
R112	**QRD141J-332S**	**3.3K**	**1/4W**	**CARBON**	
R113	QRD141J-181S	180	1/4W	CARBON	C
R113	QRD141J-181S	180	1/4W	CARBON	D
R113	QRD141J-181S	180	1/4W	CARBON	E
R113	QRD141J-271S	270	1/4W	CARBON	A
R113	QRD141J-271S	270	1/4W	CARBON	B
R114	QRD141J-391S	390	1/4W	CARBON	
R115	QRZ0062-330	33 △	1/4W	FUSIBLE	C
R115	QRZ0062-330	33 △	1/4W	UNF.CARBON	D
R115	QRZ0062-330	33 △	1/4W	UNF.CARBON	E
R116	QRZ0062-330	33 △	1/4W	FUSIBLE	C
R116	QRZ0062-330	33 △	1/4W	FUSIBLE	D
R116	QRZ0062-330	33 △	1/4W	FUSIBLE	E
R117	QRD145J-330S	33 △	1/4W	CARBON	A
R117	QRD145J-330S	33 △	1/4W	CARBON	B
R117	QRZ0062-330	33 △	1/4W	FUSIBLE	C
R117	QRZ0062-330	33 △	1/4W	FUSIBLE	D
R117	QRZ0062-330	33 △	1/4W	FUSIBLE	E
R118	QRD141J-271S	270	1/4W	CARBON	A
R118	**QRD141J-231S**	**270**	**1/4W**	**CARBON**	B
R118	**QRD141J-101S**	**100**	**1/4W**	**CARBON**	C
R118	**QRD141J-101S**	**100**	**1/4W**	**CARBON**	D
R118	**QRD141J-101S**	**100**	**1/4W**	**CARBON**	E
R121	QRD141J-102S	1K	1/4W	CARBON	
R122	QRD141J-103S	10K	1/4W	CARBON	
R123	QRD141J-682S	6.8K	1/4W	CARBON	
R124	QRD141J-222S	2.2K	1/4W	CARBON	
R125	QRD141J-105S	1M	1/4W	CARBON	
R126	QRD141J-392S	3.9K	1/4W	CARBON	
R127	QRD141J-331S	330	1/4W	CARBON	
R128	QRD141J-105S	1M	1/4W	CARBON	
R129	QRD141J-391S	390	1/4W	CARBON	
R130	QRD141J-222S	2.2K	1/4W	CARBON	
R141	QRD141J-391S	390	1/4W	CARBON	
R142	QRD141J-103S	10K	1/4W	CARBON	
R143	QRD141J-332S	3.3K	1/4W	CARBON	
R144	QRD141J-391S	390	1/4W	CARBON	
R145	QRD141J-153S	15K	1/4W	CARBON	A
R145	QRD141J-183S	18K	1/4W	CARBON	B
R145	QRD141J-183S	18K	1/4W	CARBON	C
R145	QRD141J-183S	18K	1/4W	CARBON	D
R145	QRD141J-183S	18K	1/4W	CARBON	E
R146	QRD141J-473S	47K	1/4W	CARBON	
R147	QRD145J-680S	68 △	1/4W	UNF.CARBON	A
R147	QRD145J-680S	68 △	1/4W	UNF.CARBON	B
R147	QRZ0062-680	68 △	1/4W	FUSIBLE	C
R147	QRZ0062-680	68 △	1/4W	FUSIBLE	D
R147	QRZ0062-680	68 △	1/4W	FUSIBLE	E
R149	QVP4A0B-473			VALIABLE	
R152	QRD141J-472S	4.7K	1/4W	CARBON	
R153	QRD141J-103S	10K	1/4W	CARBON	

△ Safety Parts

Resistors

ITEM	PART NUMBER	DESCRIPTION			
R154	QRD141J-473S	47K	1/4W	CARBON	
R161	QRD141J-223S	22K	1/4W	CARBON	
R162	QRD141J-220S	22	1/4W	CARBON	
R163	QRD141J-223S	22K	1/4W	CARBON	
R164	QRD141J-681S	680	1/4W	CARBON	
R165	QRD141J-221S	220	1/4W	CARBON	
R166	QRD141J-121S	120	1/4W	CARBON	
R167	QRD141J-821S	820	1/4W	CARBON	
R168	QRD141J-331S	330	1/4W	CARBON	
R169	QRD141J-222S	2.2K	1/4W	CARBON	
R171	QRD145J-680S	68 △	1/4W	UNF.CARBON	A
R171	QRD145J-680S	68 △	1/4W	UNF.CARBON	B
R171	QRZ0062-680	68 △	1/4W	FUSIBLE	C
R171	QRZ0062-680	68 △	1/4W	FUSIBLE	D
R171	QRZ0062-680	68 △	1/4W	FUSIBLE	E
R172	QVP4A0B-473			VALIABLE	C
R172	QVA4A0B-473			VALIABLE	D
R172	QVP4A0B-473			VALIABLE	E
R172	QRD141J-273S	27K	1/4W	CARBON	A
R172	QRD141J-273S	27K	1/4W	CARBON	B
R175	QRD141J-103S	10K	1/4W	CARBON	
R176	QRD141J-103S	10K	1/4W	CARBON	
R177	QRD141J-114S	110K	1/4W	CARBON	A
R177	QRD141J-114S	110K	1/4W	CARBON	B
R177	QRD141J-114S	110K	1/4W	CARBON	C
R177	QRD141J-154S	150K	1/4W	CARBON	D
R177	QRD141J-114S	110K	1/4W	CARBON	E
R178	QRD141J-114S	110K	1/4W	CARBON	A
R178	QRD141J-114S	110K	1/4W	CARBON	B
R178	QRD141J-114S	110K	1/4W	CARBON	C
R178	QRD141J-154S	150K	1/4W	CARBON	D
R178	QRD141J-114S	110K	1/4W	CARBON	E
R179	QRD141J-184S	180K	1/4W	CARBON	A
R179	QRD141J-184S	180K	1/4W	CARBON	B
R179	QRD141J-184S	180K	1/4W	CARBON	C
R179	QRD141J-184S	180K	1/4W	CARBON	E
R179	QRD141J-224S	220K	1/4W	CARBON	D
R180	QRD141J-184S	180K	1/4W	CARBON	A
R180	QRD141J-184S	180K	1/4W	CARBON	B
R180	QRD141J-184S	180K	1/4W	CARBON	C
R180	QRD141J-184S	180K	1/4W	CARBON	E
R180	QRD141J-224S	220K	1/4W	CARBON	D
R181	QRD141J-332S	3.3K	1/4W	CARBON	
R182	QRD141J-332S	3.3K	1/4W	CARBON	
R183	QRD141J-682S	6.8K	1/4W	CARBON	
R184	QRD141J-682S	6.8K	1/4W	CARBON	
R185	QRD141J-332S	3.3K	1/4W	CARBON	
R186	QRD141J-681S	680	1/4W	CARBON	
R187	QRD141J-103S	10K			C
R187	QRD141J-103S	10K			D
R187	QRD141J-103S	10K			E
R187	QRD141J-472S	407K			
R201	QRD141J-271S	270	1/4W	CARBON	
R202	QRD141J-102S	1K	1/4W	CARBON	
R203	QRD141J-221S	220	1/4W	CARBON	
R204	QRD141J-221S	220	1/4W	CARBON	
R205	QRD141J-103S	10K	1/4W	CARBON	
R206	QRD141J-103S	10K	1/4W	CARBON	
R208	QRD141J-562S	5.6K	1/4W	CARBON	
R209	QRD141J-472S	4.7K	1/4W	CARBON	
R210	QRD141J-393S	39K	1/4W	CARBON	
R211	QRD141J-272S	2.7K	1/4W	CARBON	
R212	QRD141J-153S	15K	1/4W	CARBON	E
R212	QRD141J-183S	18K	1/4W	CARBON	A
R212	QRD141J-183S	18K	1/4W	CARBON	B
R212	QRD141J-183S	18K	1/4W	CARBON	C
R212	QRD141J-183S	18K	1/4W	CARBON	D
R213	QRD141J-562S	5.6K	1/4W	CARBON	E
R213	QRD141J-682S	6.8K	1/4W	CARBON	A
R213	QRD141J-682S	6.8K	1/4W	CARBON	B
R213	QRD141J-682S	6.8K	1/4W	CARBON	C
R213	QRD141J-682S	6.8K	1/4W	CARBON	D
R214	QRD141J-562S	5.6K	1/4W	CARBON	
R215	QRZ0062-680	68 △	1/4W	FUSIBLE	C
R215	QRZ0062-680	68 △	1/4W	FUSIBLE	D
R215	QRZ0062-680	68 △	1/4W	FUSIBLE	E
R216	QRD141J-562S	5.6K	1/4W	CARBON	E
R217	QRD141J-393S	39K	1/4W	CARBON	
R231	QRD141J-103S	10K	1/4W	CARBON	
R232	QRD141J-471S	470	1/4W	CARBON	
R233	QRD141J-331S	330	1/4W	CARBON	
R234	QRD141J-562S	5.6K	1/4W	CARBON	E

△ Safety Parts

Resistors

ITEM	PART NUMBER	DESCRIPTION			
R241	QRD141J-103S	10K	1/4W	CARBON	E
R242	QRD141J-471S	470	1/4W	CARBON	E
R243	QRD141J-331S	330	1/4W	CARBON	E
R244	QRD141J-562S	5.6K	1/4W	CARBON	E
R245	QRD141J-472S	4.7K	1/4W	CARBON	E
R251	QRD141J-223S	22K	1/4W	CARBON	E
R252	QRD141J-104S	100K	1/4W	CARBON	
R261	QRD141J-223S	22K	1/4W	CARBON	E
R262	QRD141J-104S	100K	1/4W	CARBON	E
R401	QRD141J-563S	56K	1/4W	CARBON	
R402	QRD141J-563S	56K	1/4W	CARBON	
R403	QRD141J-563S	56K	1/4W	CARBON	E
R404	QRD141J-103S	10K	1/4W	CARBON	
R405	QRD141J-103S	10K	1/4W	CARBON	
R406	QRD141J-103S	10K	1/4W	CARBON	E
R407	QRD141J-153S	15K	1/4W	CARBON	E
R408	QRD141J-153S	15K	1/4W	CARBON	E
R409	QRD141J-104S	100K	1/4W	CARBON	
R410	QRD141J-103S	10K	1/4W	CARBON	
R411	QRD141J-103S	10K	1/4W	CARBON	
R412	QRD141J-472S	4.7K	1/4W	CARBON	
R413	QRD141J-472S	4.7K	1/4W	CARBON	
R414	QRD141J-823S	82K	1/4W	CARBON	
R415	QRD141J-683S	68K	1/4W	CARBON	
R416	QRD141J-683S	68K	1/4W	CARBON	
R417	QRD141J-102S	1K	1/4W	CARBON	A
R421	QRD141J-102S	1K	1/4W	CARBON	
R422	QRD141J-222S	2.2K	1/4W	CARBON	
R423	QRD141J-271S	270	1/4W	CARBON	
R424	QRD141J-103S	10K	1/4W	CARBON	
R425	QRD141J-152S	1.5K	1/4W	CARBON	A
R425	QRD141J-152S	1.5K	1/4W	CARBON	B
R425	QRD141J-152S	1.5K	1/4W	CARBON	C
R425	QRD141J-152S	1.5K	1/4W	CARBON	D
R425	QRD141J-682S	6.8K	1/4W	CARBON	E
R426	QRD141J-472S	4.7K	1/4W	CARBON	
R427	**QRD141J-102S**	**1K**	1/4W	CARBON	
R441	QRD141J-104S	100K	1/4W	CARBON	
R442	QRD141J-104S	100K	1/4W	CARBON	
R443	QRD141J-104S	100K	1/4W	CARBON	
R444	QRD141J-104S	100K	1/4W	CARBON	
R445	QRD141J-104S	100K	1/4W	CARBON	
R446	QRD141J-104S	100K	1/4W	CARBON	
R447	QRD141J-104S	100K	1/4W	CARBON	
R448	QRD141J-104S	100K	1/4W	CARBON	
R449	QRD141J-104S	100K	1/4W	CARBON	
R450	QRD141J-104S	100K	1/4W	CARBON	
R451	QRD141J-104S	100K	1/4W	CARBON	
R452	QRD141J-104S	100K	1/4W	CARBON	
R453	QRD141J-223S	22K	1/4W	CARBON	
R454	QRG022J-331A	**330** ⚠		O.M.FILM	
R455	QRD141J-222S	2.2K	1/4W	CARBON	
R461	QRD141J-121S	120	1/4W	CARBON	
R462	QRD141J-472S	4.7K	1/4W	CARBON	
R463	QRD141J-472S	4.7K	1/4W	CARBON	

⚠ Safety Parts

Others

ITEM	PART NUMBER	DESCRIPTION	
	EMB01YV-201A	ANTENNA TERMINAL	D
	E03572-016	TERMINAL BOARD	A
	E03572-016	TERMINAL BOARD	B
	E03572-016	TERMINAL BOARD	C
	E03572-016	TERMINAL BOARD	E
	E67764-002	TERMINAL ASS'Y	A
	E67764-002	TERMINAL ASS'Y	
	E67764-002	TERMINAL ASS'Y	
	E10951-002	CIRCUIT BOARD	
	E67910-001	SPACER	
	E70225-001	EARTH PLATE	
	E70859-001	EARTH PLATE	
	E71205-001	SHIELD CASE	
L151	EQF0102-001	FILTER	D
P171	E04365-003	3P SOCKET	
P401	E04365-003	3P SOCKET	
S401	**QST4101-E12**	PUSH SWITCH	
S461	ESP0001-007	PUSH SWITCH	
S462	ESP0001-007	PUSH SWITCH	
S463	ESP0001-007	PUSH SWITCH	
S464	ESP0001-007	PUSH SWITCH	
S465	ESP0001-007	PUSH SWITCH	
S466	ESP0001-007	PUSH SWITCH	
S467	ESP0001-007	PUSH SWITCH	
S468	ESP0001-007	PUSH SWITCH	
S469	ESP0001-007	PUSH SWITCH	
S470	ESP0001-007	PUSH SWITCH	
S471	ESP0001-007	PUSH SWITCH	E
S472	ESP0001-007	PUSH SWITCH	
S473	ESP0001-007	PUSH SWITCH	
S474	ESP0001-007	PUSH SWITCH	
S481	QSS1201-039	SLIDE SWITCH	B
S485	QSP0301-006	PUSH SWITCH	
CF111	ECB2118-002R	CERAMIC FILTER	C
CF111	ECB2118-002R	CERAMIC FILTER	D
CF111	ECB2118-002R	CERAMIC FILTER	E
CF111	ECB2123-002R	CERAMIC FILTER	A
CF111	ECB2123-002R	CERAMIC FILTER	B
CF112	ECB2118-002R	CERAMIC FILTER	C
CF112	ECB2118-002R	CERAMIC FILTER	D
CF112	ECB2118-002R	CERAMIC FILTER	E
CF112	ECB2123-002R	CERAMIC FILTER	A
CF112	ECB2123-002R	CERAMIC FILTER	B
CF171	ECX0000-456KS	RESONATOR	
CF201	ECB1560-001	CERAMIC FILTER	
LF101	EQF0101-005	FILTER	D
LF171	EQF0101-002	FILTER	
XT401	ECX0007-200KC	CRYSTAL	
	ELU0001-016	F.L.TUBE	

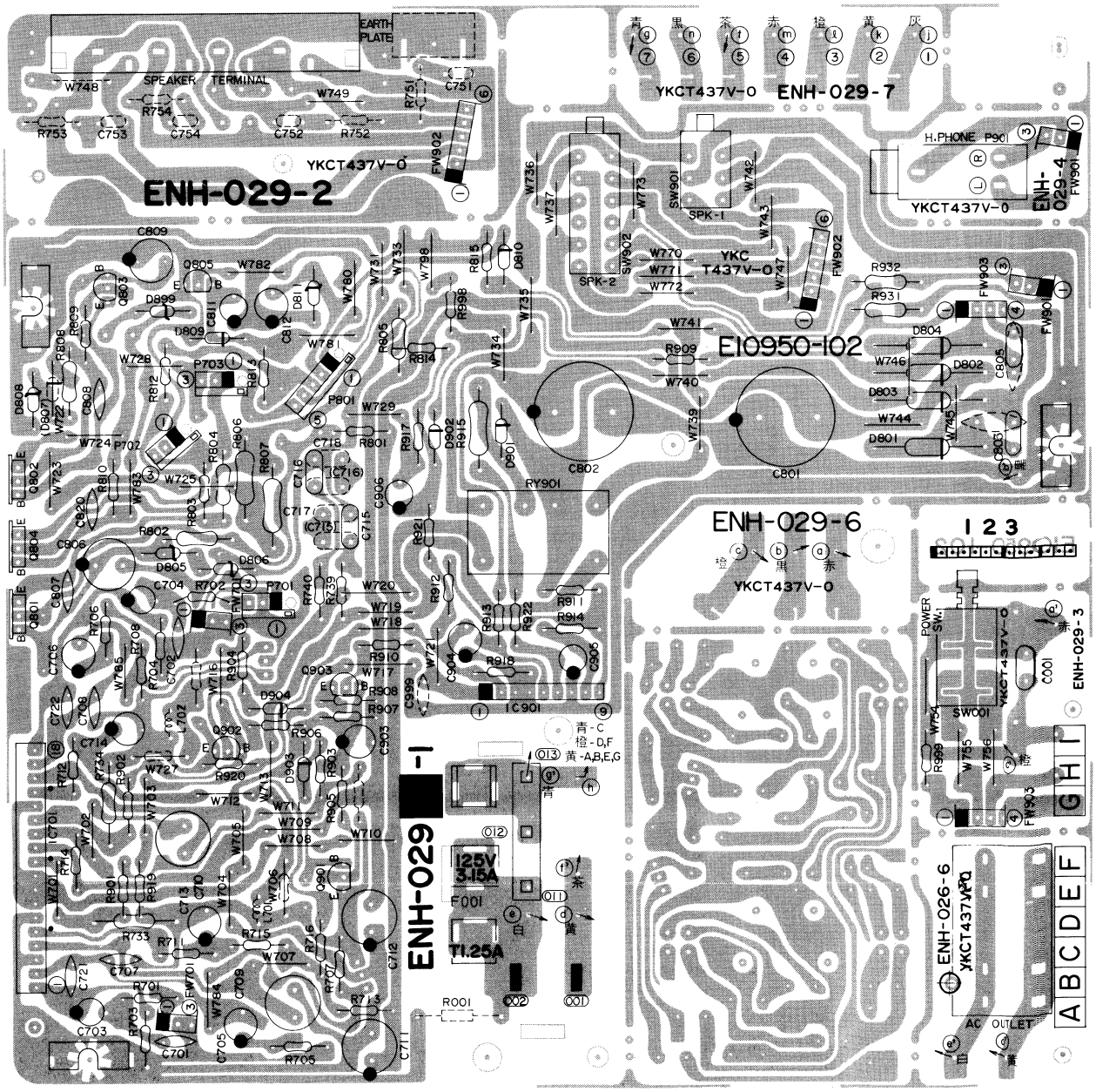
3-(2) ENH-029 ☐ Audio P.C. Board Ass'y

Note: ENH-029☐ varies according to the areas employed. See note (1) when placing an order.

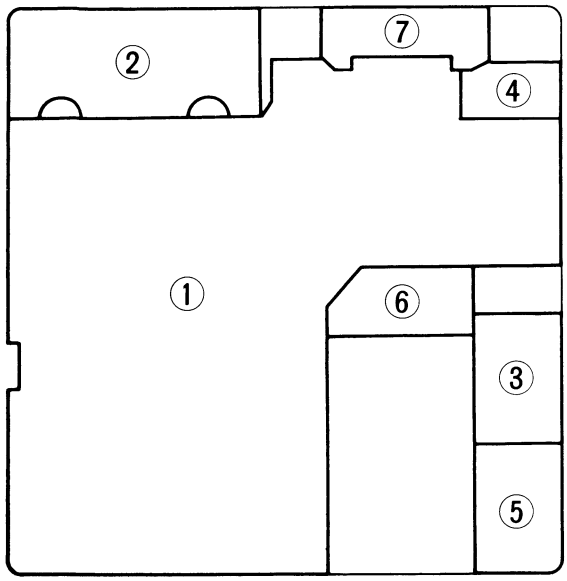
Note (1)

Designated Areas	P.C. Board Ass'y
U.S.A.	ENH-029 [A]
Canada	ENH-029 [B]
U.S. Military Market Other Countries	ENH-029 [C]
Europe	ENH-029 [D]
U.K.	ENH-029 [EBS]
West Germany	ENH-029 [F]
Australia	ENH-029 [G]

Note (2)
They symbols (赤、黒、白 . . . . .etc.) on P.C. Board sarface are factory process only.



Each Individual P.C. Board Location



① ENH-029□ -1 Main Amplifier P.C. Board Ass'y
② ENH-029-2 Speaker Terminal P.C. Board Ass'y
③ ENH-029-3 Power Switch P.C. Board Ass'y
④ ENH-029-4 Headphone P.C. Board Ass'y
⑤ ENH-029-5 AC Outlet P.C. Board Ass'y
⑥ ENH-029-6 Power Transformer (Lower) P.C. Board Ass'y
⑦ ENH-029-7 Power Transformer (Upper) P.C. Board Ass'y

The Marks by Designated Area	
A . . . U.S.A	D . . . . Europe
B . . . Canada	EBS . . U.K.
C . . . U.S. Military Market	F . . . . West Germany
Other Countries	G . . . . Australia

Transistors

ITEM	PART NUMBER	DESCRIPTION	
			MAKER
Q801	2SB941A(P,Q)	SILICON	MATSUSHITA
Q802	2SD1265A(O,P)	SILICON	MATSUSHITA
Q803	2SC945A(P,Q)	SILICON	NEC
Q804	2SD1265A(O,P)	SILICON	MATSUSHITA
Q805	2SC458(C,D)	SILICON	HITACHI
Q901	2SC2240(GR,BL)	SILICON	NEC
Q902	2SC2240(GR,BL)	SILICON	NEC
Q903	2SA733A(P,Q)	SILICON	NEC

ICs

ITEM	PART NUMBER	DESCRIPTION
		MAKER
IC701	STK4171MK2	SANYO
IC901	TA7317P	TOSHIBA

Diodes

ITEM	PART NUMBER	DESCRIPTION	
			MAKER
D801	S3V20F	SILICON	SHINDENGEN
D802	S3V20F	SILICON	SHINDENGEN
D803	S3V20F	SILICON	SHINDENGEN
D804	S3V20F	SILICON	SHINDENGEN
D805	RD13EB3	SILICON	NEC

Diodes

ITEM	PART NUMBER	DESCRIPTION		
			MAKER	
D806	RD13EB3	SILICON	NEC	
D807	1S2473	SILICON		D
D807	1S2473	SILICON		EBS
D807	1S2473	SILICON		F
D807	1S2473	SILICON		G
D808	RD15EB3	SILICON	NEC	
D809	1S2473	SILICON		
D810	1S2473	SILICON		
D811	RD5.1EB2	SILICON	NEC	
D899	RD6.2EB3	SILICON	NEC	
D901	1S2473	SILICON		
D902	1S2473	SILICON		
D903	1S2473	SILICON		
D904	1S2473	SILICON		

Capacitors

ITEM	PART NUMBER	DESCRIPTION			
C701	QCS31HJ-680	68PF	50V	CERAMIC	
C702	QCS31HJ-680	68PF	50V	CERAMIC	
C703	QEH51HM-225M	2.2MF	50V	ELECTRO	
C704	QEH51HM-225M	2.2MF	50V	ELECTRO	
C705	QEH51AM-476M	47MF	10V	ELECTRO	
C706	QEH51AM-476M	47MF	10V	ELECTRO	
C707	QCS31HJ-100	10PF	50V	CERAMIC	
C708	QCS31HJ-100	10PF	50V	CERAMIC	
C709	QEN51HM-107	100MF	50V	ELECTRO	
C710	QEN51HM-107	100MF	50V	ELECTRO	
C711	QET51HM-107	100MF	50V	ELECTRO	
C712	QET51HM-107	100MF	50V	ELECTRO	
C713	QETC1EM-476	47MF	25V	ELECTRO	
C714	QETC1EM-476	47MF	25V	ELECTRO	
C715	QFN31HK-473	0.047MF	50V	MYLAR	
C716	QFN31HK-473	0.047MF	50V	MYLAR	
C717	QFN31HK-473	0.047MF	50V	MYLAR	B
C717	QFN31HK-473	0.047MF	50V	MYLAR	D
C717	QFN31HK-473	0.047MF	50V	MYLAR	EBS
C717	QFN31HK-473	0.047MF	50V	MYLAR	F
C717	QFN31HK-473	0.047MF	50V	MYLAR	G
C718	QFN31HK-473	0.047MF	50V	MYLAR	B
C718	QFN31HK-473	0.047MF	50V	MYLAR	D
C718	QFN31HK-473	0.047MF	50V	MYLAR	EBS
C718	QFN31HK-473	0.047MF	50V	MYLAR	F

Capacitors

ITEM	PART NUMBER	DESCRIPTION			
C718	QFN31HK-473	0.047MF	50V	MYLAR	G
C721	QCS31HJ-221	220PF	50V	CERAMIC	
C722	QCS31HJ-221	220PF	50V	CERAMIC	
C801	QEZ0061-478	4700MF	50V	ELECTORO	
C802	QEZ0061-478	4700MF	50V	ELECTORO	
C803	QFM32AK-473	0.047MF	10V	MYLAR	
C805	QFM32AK-473	0.047MF	10V	MYLAR	
C806	QETC1VM-107	100MF	35V	ELECTORO	
C807	QCF31HP-103	0.01MF	50V	CERAMIC	
C808	QCF31HP-103	0.01MF	50V	CERAMIC	
C809	QETC1EM-107	100MF	25V	ELECTORO	
C810	QETG1HM-476	47MF	50V	ELECTORO	
C811	QETC1HM-475	4.7MF	50V	ELECTORO	
C812	QETC1CM-476	47MF	16V	ELECTORO	
C820	QCF31HP-103	0.01MF	50V	CERAMIC	
C903	QETC1HM-226	22MF	50V	ELECTORO	
C904	QETC1AM-107	100MF	10V	ELECTORO	
C905	QETC1CM-226	22MF	16V	ELECTORO	
C906	QETC1HM-105	1MF	50V	ELECTORO	

Resistors

ITEM	PART NUMBER	DESCRIPTION			
R001	QRC128K-275EM	△		COMPOSI	A
R001	QRC128K-275EM	△		COMPOSI	B
R701	QRD141J-102S	1K	1/4W	CARBON	
R702	QRD141J-102S	1K	1/4W	CARBON	
R703	QRD141J-104S	100K	1/4W	CARBON	
R704	QRD141J-104S	100K	1/4W	CARBON	
R707	QRD141J-104S	100K	1/4W	CARBON	
R708	QRD141J-104S	100K	1/4W	CARBON	
R711	QRD141J-222S	2.2K	1/4W	CARBON	A
R711	QRD141J-222S	2.2K	1/4W	CARBON	B
R711	QRD145J-222S	2.2 △	1/4W	UNF.CARBON	C
R711	QRD145J-222S	2.2 △	1/4W	UNF.CARBON	D
R711	QRD145J-222S	2.2 △	1/4W	UNF.CARBON	EBS
R711	QRD145J-222S	2.2 △	1/4W	UNF.CARBON	F
R711	QRD145J-222S	2.2 △	1/4W	UNF.CARBON	G
R712	QRD141J-222S	2.2K	1/4W	CARBON	A
R712	QRD141J-222S	2.2K	1/4W	CARBON	B
R712	QRD145J-222S	2.2 △	1/4W	UNF.CARBON	C
R712	QRD145J-222S	2.2 △	1/4W	UNF.CARBON	D
R712	QRD145J-222S	2.2 △	1/4W	UNF.CARBON	EBS
R712	QRD145J-222S	2.2 △	1/4W	UNF.CARBON	F
R712	QRD145J-222S	2.2 △	1/4W	UNF.CARBON	G
R713	QRD145J-221S	220 △	1/4W	UNF.CARBON	A
R713	QRD145J-221S	220 △	1/4W	UNF.CARBON	B
R713	QRD145J-221S	220 △	1/4W	UNF.CARBON	C
R713	QRZ0062-221	220 △	1/4W	FUSIBLE	D
R713	QRZ0062-221	220 △	1/4W	FUSIBLE	EBS
R713	QRZ0062-221	220 △	1/4W	FUSIBLE	F
R713	QRZ0062-221	220 △	1/4W	FUSIBLE	G
R714	QRD145J-101S	100 △	1/4W	UNF.CARBON	A
R714	QRD145J-101S	100 △	1/4W	UNF.CARBON	B
R714	QRD145J-101S	100 △	1/4W	UNF.CARBON	C
R714	QRZ0062-101	100 △	1/4W	FUSIBLE	D
R714	QRZ0062-101	100 △	1/4W	FUSIBLE	EBS
R714	QRZ0062-101	100 △	1/4W	FUSIBLE	F
R714	QRZ0062-101	100 △	1/4W	FUSIBLE	G
R715	QRD141J-222S	2.2K	1/4W	CARBON	A
R715	QRD145J-222S	2.2 △	1/4W	UNF.CARBON	C
R715	QRD145J-222S	2.2 △	1/4W	UNF.CARBON	D
R715	QRD145J-222S	2.2 △	1/4W	UNF.CARBON	EBS
R715	QRD145J-222S	2.2 △	1/4W	UNF.CARBON	F
R715	QRD145J-222S	2.2 △	1/4W	UNF.CARBON	G
R716	QRD141J-222S	2.2K	1/4W	CARBON	A
R716	QRD145J-222S	2.2 △	1/4W	UNF.CARBON	C
R716	QRD145J-222S	2.2 △	1/4W	UNF.CARBON	D
R716	QRD145J-222S	2.2 △	1/4W	UNF.CARBON	EBS
R716	QRD145J-222S	2.2 △	1/4W	UNF.CARBON	F
R716	QRD145J-222S	2.2 △	1/4W	UNF.CARBON	G
R733	QRX022J-R22AM	△		UNF.CARBON	

△ Safety Parts

Resistors

ITEM	PART NUMBER	DESCRIPTION		
R734	QRX022J-R22AM			UNF.CARBON
R739	QRD145J-100S	10	1/4W	UNF.CARBON
R740	QRD145J-100S	10	1/4W	UNF.CARBON
R751	QRZ0062-100	10	1/4W	FUSIBLE F
R752	QRZ0062-100	10	1/4W	FUSIBLE F
R753	QRZ0062-100	10	1/4W	FUSIBLE F
R754	QRZ0062-100	10	1/4W	FUSIBLE F
R801	QRD145J-120S	12	1/4W	UNF.CARBON
R802	QRD125J-122	1.2K	1/2W	UNF.CARBON
R803	QRD145J-150S	15	1/4W	UNF.CARBON
R804	QRD125J-181	181	1/2W	UNF.CARBON
R805	QRD125J-2R2	2.2	1/2W	UNF.CARBON
R806	QRG022J-101AM			O.M.FILM
R807	QRG022J-101AM			O.M.FILM
R808	QRD125J-182	1.8K	1/2W	UNF.CARBON
R809	QRD145J-101S	100	1/4W	UNF.CARBON
R810	QRD141J-182S	1.8K	1/4W	CARBON
R812	QRD145J-100S	10	1/4W	UNF.CARBON
R813	QRD141J-333S	33K	1/4W	CARBON
R814	QRD141J-563S	56K	1/4W	CARBON
R815	QRD141J-222S	2.2K	1/4W	CARBON
R901	QRD141J-152S	1.5K	1/4W	CARBON
R902	QRD141J-152S	1.5K	1/4W	CARBON
R903	QRD141J-562S	5.6K	1/4W	CARBON
R904	QRD141J-562S	5.6K	1/4W	CARBON
R905	QRD141J-123S	12K	1/4W	CARBON
R906	QRD141J-123S	12K	1/4W	CARBON
R907	QRD141J-103S	10K	1/4W	CARBON
R908	QRD141J-332S	3.3K	1/4W	CARBON
R909	QRD141J-562S	5.6K	1/4W	CARBON
R910	QRD141J-563S	56K	1/4W	CARBON
R911	QRD141J-183S	18K	1/4W	CARBON
R913	QRD141J-153S	15K	1/4W	CARBON
R914	QRD141J-224S	220K	1/4W	CARBON
R915	QRG022J-561AM			O.M.FILM
R917	QRD141J-223S	22K	1/4W	CARBON
R918	QRD141J-104S	100K	1/4W	CARBON
R919	QRD141J-104S	100K	1/4W	CARBON
R920	QRD141J-104S	100K	1/4W	CARBON
R921	QRD141J-563S	56K	1/4W	CARBON
R922	QRD141J-151S	150	1/4W	CARBON
R931	QRD125J-221	220	1/2W	UNF.CARBON
R932	QRD125J-221	220	1/2W	UNF.CARBON
R998	QRD141J-472S	4.7K	1/4W	CARBON
R999	QRD141J-332S	3.3K	1/4W	CARBON

Others

ITEM	PART NUMBER	DESCRIPTION	
	QMC0437-002	AC SOCKET△	A
	QMC0437-002	AC SOCKET△	B
	QMC0437-002	AC SOCKET△	C
	E45524-002	FUSE CLIP△	A
	E45524-002	FUSE CLIP△	B
	EMB90TV-801A	SPSAKER TERMINAL	
	E67764-203	TERMINAL ASS'Y	C
	E65508-002	TAB	
	EMG7331-001	FUSE CLIP△	D
	EMG7331-001	FUSE CLIP△	EBS
	EMG7331-001	FUSE CLIP△	F
	EMG7331-001	FUSE CLIP△	G
	E10950-102	CIRCUIT BOARD	A
	E10950-102	CIRCUIT BOARD	B
	E10950-102	CIRCUIT BOARD	C
	E10950-102	CIRCUIT BOARD	D
	E10950-102	CIRCUIT BOARD	F
	E10950-102	CIRCUIT BOARD	G
	E10950-102BS	CIRCUIT BOARD	EBS
	E303213-002	HEAT SINK	
	E71140-001	SPRING	
	E33754-001	TIE BAND	
	E33754-001	TIE BAND	
	E33754-001	TIE BAND	
	E33754-001	TIE BAND	

△ Safety Parts

Others

ITEM	PART NUMBER	DESCRIPTION
	E33754-001	TIE BAND
	E33754-001	TIE BAND
	E33754-001	TIE BAND
	SBSB3008N	TAPPING SCREW
	SBSE3008Z	SCREW
	E70225-001	EARTH PLATE
	E70859-001	EARTH PLATE
	E71236-001	FUSE PLATE
P701	E04365-003	3P SOCKET
P702	E04365-003	3P SOCKET

Others

ITEM	PART NUMBER	DESCRIPTION
P703	E04365-003	3P SOCKET
P801	E04365-005	5P SOCKET
P901	QMS6302-128	HEADPHONE JACK
RY901	ESK6524-213	RELAY
SW001	QSP2206-001	PUSH SWITCH△
SW901	QST4261-E05	PUSH SWITCH

△ Safety Parts

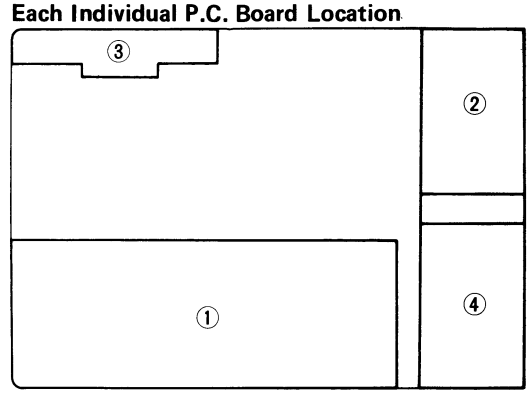
3-(3) ENF-012 □ SEA Switch P.C. Board Ass'y

Note: ENF-012□ varies according to the areas employed. See note (1) when placing an order.

Note (1)

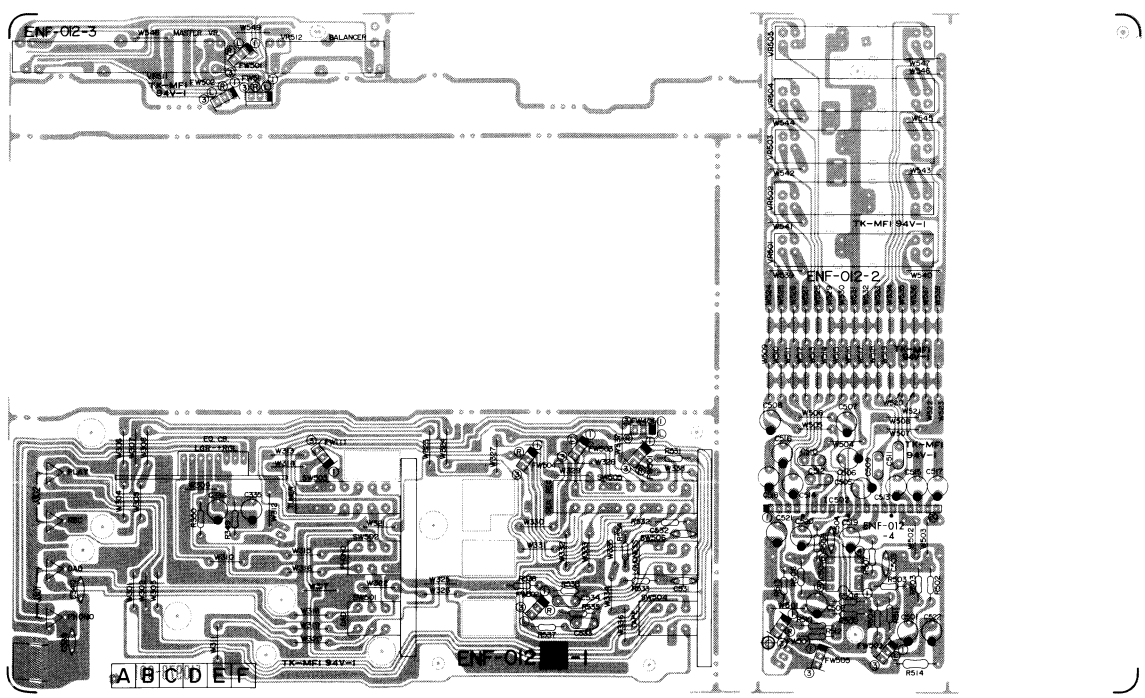
Designated Areas	P.C. Board Ass'y
U.S.A., Canada, U.S. Militaly Market Other Countries	ENF-012 [A]
Europe, Australia, U.K.	ENF-012 [B]
West Germany	ENF-012 [C]

Each Individual P.C. Board Location



Note (2)
The symbols (赤、黒、白 ..... etc.) on P.C. Board surface are factory process only.

① ENF-012□ -1 EQ. Amplifier P.C. Board Ass'y
② ENF-012-2 SEA Volume P.C. Board Ass'y
③ ENF-012-3 Slide Volume P.C. Board Ass'y
④ ENF-012-4 SEA Amplifier P.C. Board Ass'y



The Marks by Designated Area

A ..... U.S.A., Canada, U.S. Military Market, Other Countries
B ..... Europe, Australia, U.K.
C ..... West Germany

ICs

ITEM	PART NUMBER	DESCRIPTION	MAKER
IC501	NJM4560D-X		DAINICHI
IC502	SAB2-024		ALPS

Capacitors

ITEM	PART NUMBER	DESCRIPTION		
C335	QETC1CM-226	22MF	16V	ELECTORO
C336	QETC1CM-226	22MF	16V	ELECTORO
C501	QETC1HM-475	4.7MF	50V	ELECTORO
C502	QETC1HM-475	4.7MF	50V	ELECTORO
C503	QCS31HJ-470	47PF	50V	CERAMIC
C504	QCS31HJ-470	47PF	50V	CERAMIC
C505	QETC1CM-476	47MF	16V	ELECTORO
C506	QETC1CM-476	47MF	16V	ELECTORO
C507	QETC1CM-476	47MF	16V	ELECTORO
C508	QETC1CM-476	47MF	16V	ELECTORO
C509	QFN31HK-183	0.018PF	50V	MYLAR
C510	QFN31HK-183	0.018PF	50V	MYLAR
C511	QFN31HK-683	0.068PF	50V	MYLAR
C512	QFN31HK-683	0.068PF	50V	MYLAR
C513	QEB61HM-334	0.34PF	50V	L.L.C.E.
C514	QEB61HM-334	0.34PF	50V	L.L.C.E.
C515	QETC1HM-105	1MF	50V	ELECTORO
C516	QETC1HM-105	1MF	50V	ELECTORO
C517	QETC1HM-475	4.7MF	50V	ELECTORO
C518	QETC1HM-475	4.7MF	50V	ELECTORO
C519	QETC1HM-475	4.7MF	50V	ELECTORO
C520	QETC1HM-475	4.7MF	50V	ELECTORO
C521	QETC1EM-226	22MF	25V	ELECTORO
C522	QETC1EM-226	22MF	25V	ELECTORO
C531	QCS31HJ-181	180PF	50V	CELAMIC
C532	QCS31HJ-181	180PF	50V	CELAMIC
C533	QFN31HK-183	0.018PF	50V	MYLAR
C534	QFN31HK-183	0.018PF	50V	MYLAR

Resistors

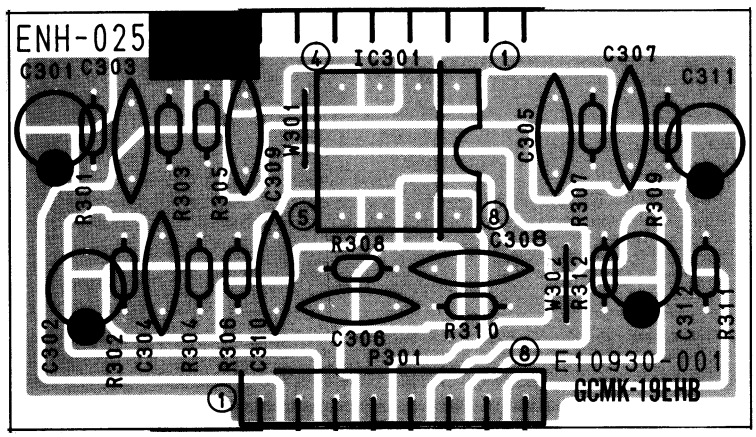
ITEM	PART NUMBER	DESCRIPTION			
R349	QRD141J-331S	330		1/4W	CARBON	
R350	QRD145J-100S	10	⚠	1/4W	UNF.CARBON	A
R350	QRZ0062-100	10	⚠	1/4W	FUSIBLE	B
R350	QRZ0062-100	10		1/4W	FUSIBLE	C
R501	QRD141J-104S	100K		1/4W	CARBON	
R502	QRD141J-104S	100K		1/4W	CARBON	
R503	QRD141J-104S	100K		1/4W	CARBON	
R504	QRD141J-104S	100K		1/4W	CARBON	
R505	QRD141J-102S	1K		1/4W	CARBON	
R506	QRD141J-102S	1K		1/4W	CARBON	
R507	QRD141J-332S	3.3K		1/4W	CARBON	
R508	QRD141J-332S	3.3K		1/4W	CARBON	
R509	QRD141J-331S	330		1/4W	CARBON	
R510	QRD141J-331S	330		1/4W	CARBON	
R511	QRD141J-224S	220K		1/4W	CARBON	
R512	QRD141J-224S	220K		1/4W	CARBON	
R513	QRD145J-100S	10	⚠	1/4W	UNF.CARBON	
R514	QRD145J-100S	10	⚠	1/4W	UNF.CARBON	
R531	QRD141J-332S	3.3K		1/4W	CARBON	
R532	QRD141J-332S	3.3K		1/4W	CARBON	
R533	QRD141J-564S	560K		1/4W	CARBON	
R534	QRD141J-564S	560K		1/4W	CARBON	
R535	QRD141J-683S	68K		1/4W	CARBON	
R536	QRD141J-683S	68K		1/4W	CARBON	
R537	QRD141J-223S	22K		1/4W	CARBON	
R538	QRD141J-223S	22K		1/4W	CARBON	
VR501	QVZ5206-004				VALIABLE	
VR502	QVZ5206-004				VALIABLE	
VR503	QVZ5206-004				VALIABLE	
VR504	QVZ5206-004				VALIABLE	
VR505	QVZ5206-004				VALIABLE	
VR511	QVZ5020-001				VALIABLE	
VR512	QVZ5307-001				VALIABLE	

⚠ Safety Parts

Others

ITEM	PART NUMBER	DESCRIPTION	
	EMN00TV-402A	PIN JACK ASS'Y	
	ENH-025C	MOJUILE UNIT	A
	ENH-025C	MOJUILE UNIT	B
	ENH-025D	MOJUILE UNIT	C
	E10978-001	CIRCUIT BOARD	
SW501	QST4351-E04	PUSH SWITCH	
SW504	QST4351-E05	PUSH SWITCH	

3-(4) ENH-025 ☐ Module P.C. Board Ass'y



ICs

ITEM	PART NUMBER	DESCRIPTION	
			MAKER
IC301	NJM4558D-D		DAINICHI

Capacitors

ITEM	PART NUMBER	DESCRIPTION		
C301	QEK61EM-475	4.7MF	25V	ELECTORO
C302	QEK61EM-475	4.7MF	25V	ELECTORO
C303	QCY31HK-101	100PF	50V	CERAMIC
C304	QCY31HK-471	470PF	50V	CERAMIC
C305	QCY31HK-182	1800PF	50V	CERAMIC
C306	QCY31HK-182	1800PF	50V	CERAMIC
C307	QCY31HK-682	6800PF	50V	CERAMIC
C308	QCY31HK-682	6800PF	50V	CERAMIC
C309	QCY31HK-101	100PF	50V	CERAMIC
C310	QCY31HK-101	100PF	50V	CERAMIC
C311	QEK61EM-475	4.7MF	25V	ELECTORO
C312	QEK61EM-475	4.7MF	25V	ELECTORO

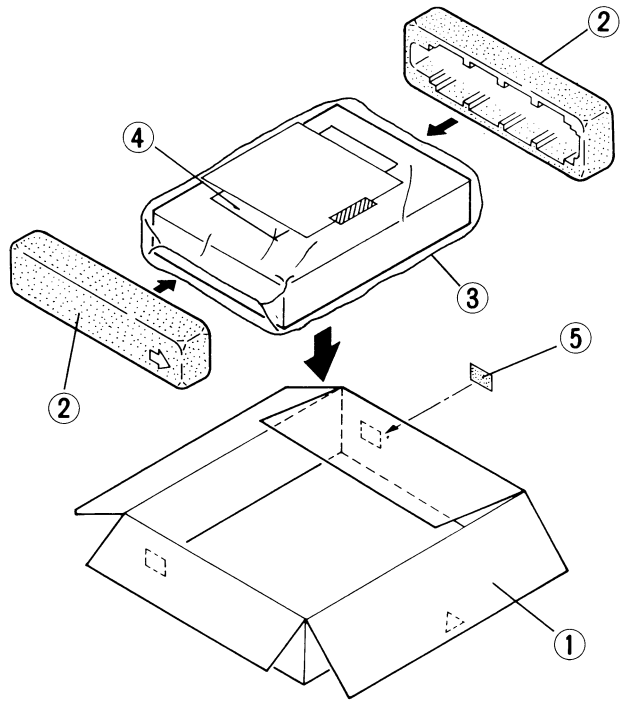
Resistors

ITEM	PART NUMBER	DESCRIPTION	
R301	QRD161J-222		CARBON
R302	QRD161J-222		CARBON
R303	QRD161J-473		CARBON
R304	QRD161J-473		CARBON
R305	QRD161J-621		CARBON
R306	QRD161J-621		CARBON
R307	QRD161J-393		CARBON
R308	QRD161J-393		CARBON
R309	QRD161J-474		CARBON
R310	QRD161J-474		CARBON
R311	QRD161J-104		CARBON
R312	QRD161J-104		CARBON

Others

ITEM	PART NUMBER	DESCRIPTION
	E10930-001	CIRCUIT BOARD
P301	EMV5101-008B	PLUG ASSY

4. Packing Materials and Part Numbers



The Marks for Designated Areas.	
J ..... U.S.A.	G ..... West Germany
C ..... Canada	A ..... Australia
P.PG .... U.S. Military Market	LBS .... U.K.
E,LE .... Europe	U ..... Other Countries

No.	Part Name	Part Number	Description
1	Packing Case	PK-RK200E	P. PG. E. G. A. U J. C.
		PK-RK200LE	LE. LBS
2	Fillers (L. R)	NZ-RK200E	(L . . . E24364-001) (R . . . E24364-002)
3	Pretect SHeet	E68142-005	J.C.P.PG.E.G.A.LE.U
		E68142-005B	LBS
4	Caution Sheet	E35497-005	P.
		E35497-007	U. PG
5	Serial Label	E35246-001	J.C.P.PG.A.LBS.U
		E35246-004	E. LE
		E35246-006	G.

5. Accessories List

Part Name	Part Number	Q'ty	Area
Instruction Book	E30580-1171A	1	J. C. P. PG. E. LEG. AU
	E30580-1171ABS	1	LBS
JVC Safety Instruction Sheet	BT20044D	1	J
Warranty Card	BT20025F	1	C
	BT20029C	1	A
	BT20048A	1	J. P. PG
	BT20060	1	LBS
	BT20064	1	G
ECC Agency	BT20066	1	G. LBS
SVC Center	BT20071	1	C
FTZ Information Card	BT20054-005A	1	G
Service Information Card	BT20046B	1	J. P. PG
Built-in Antenna	E03614-004	1	J. C. P. PG. E. A. LE. LBS. U
Wire Antenna Ass'y	E67007-001	1	G
Siemens Plug	E04506	1	PG. U
Fuse Label	E67142-T2R5	1	PG. U (T2.5)
	E67142-T1R25	1	P (T1.25)
Fuse Primary ⚠	QMF51A2-2R5L	1	PG. U (2.5A 250V)
	QMF51A2-1R25L	1	P (1.25A 250V)
Envelope (for Instruction Book)	QPGA025-03505	1	J. C. U. P. PG. E. A. G. LE
	QPGA025-03505B	1	LBS
Envelope (for Warranty Card)	E66416-003	1	J. C
Envelope (for Fuse)	QPGA005-00703	1	U. P. PG
Warning Label	E60965-001BS	1	LBS
Loop Antenna	EQB4001-006	1	

⚠ Safety Parts